

THE CHEMIST AND DRUGGIST

Established in
ENGLAND - - 1859
AUSTRALASIA 1885

Registered as a Newspaper and
PUBLISHED WEEKLY AT
42 CANNON ST., LONDON, E.C.4

Telephone: 3617 CENTRAL (3 lines).
Telegrams: CHEMICUS, CANNON,
LONDON (charged as two words only).

No. 2,039. Vol. XCI.

SUBSCRIPTION (including the Diary and Text Book) at Home or Abroad,
15s. PER ANNUM, POST FREE. Single Copies 6d. each, including postage.

FEBRUARY 22, 1919

"A perfect combination of Malt Extract
and Cod-Liver Oil."—*B.M.J.*

"Will be digested by many who cannot
take Cod-Liver Oil."—*Lancet.*



The Successful Fat-Food Nutrient.

P.A.T.A.

The Minimum Retail
Prices are protected at
Face values
2/3 and 4/- each.

Trade

‘*MALT & COD LIVER OIL*’
Bynol
BRAND

Mark

Discount.

25% discount is
deducted from each in-
voice off the Minimum
Retail Prices.

The confidence of the Medical Profession in 'Bynol' has been gained by maintaining the purity and activity of the ingredients upon the highest level. Only the purest Norwegian Cod-Liver Oil and the finest Barley Malt are contained in 'Bynol.' It is a fat and thermogenetic food of the greatest value to the growing child or delicate adult. 'Bynol' gives satisfaction to Physician, Patient and Pharmacist.

Telegraphic Address:
"Allenburys," London.

ALLEN & HANBURY'S Ltd., LONDON.

Telephone Number:
5023 London Wall (6 lines).

Umney's Choice Synthetics, &c.

"ROSETTOL"

A delicate fragrant Rose compound for Perfumes, Toilet Preparations, Rose Water, etc. ... 25/- per oz.

"ROSETTOL" First in the Field, still holds first place amongst the synthetic Rose products.

A PHARMACIST'S OPINION—"ROSETTOL" is better than any other artificial otto that I have tried."—GEORGE LUNAN, F.C.S., Pharmaceutical Chemist, Edinburgh.

PRESS OPINION.—"When the firm's 'ROSETTOL' was first introduced, we were much impressed by its excellent qualities, and thought it was, in fact, an improvement upon the natural otto; we think so still."—THE PHARMACEUTICAL JOURNAL.

"JASMINETTOL"

Artificial Jasmin Oil. The true Natural Odour of the Jasmine ... 10/6 per oz.

BENZOINETTOL. For Perfuming Benzoin Creams, Lotions, etc. ... 5/- per oz.

BERGAMETTOL. Artificial Bergamot Oil 1/6 per oz.; 20/- per lb.

CARNATESSE. The Fragrance of the Clove Pink accurately represented ... 7/6 per oz

GERANETTOL. Artificial Geranium Oil 1/6 per oz.; 20/- per lb.

LAVANDESSE. A highly Concentrated Extract of Lavender Flowers prepared by a new process. "It has a fragrance of the lavender field" ... 3/- per oz.

MUSCOL. A perfume fixative to replace Musk and Ambergris ... 4/6 per oz.

NEROLETTOL. A substitute for Oil of Orange Flowers ... 7/6 per oz.

PATCHOULETTOL. A substitute for Patchouli Oil ... 3/6 per oz.

SACHETTOL. A delightful perfume, very persistent. Economical in use. An excellent basis for sachet powder or for use in toilet creams ... 7/6 per oz.

VIOLONOL. The true fragrance of the Violet. For Perfumes, Toilet Specialities, etc. 10/6 per oz.

Special preparations of the above, miscible with oil, can be supplied for Brilliantines.

UMNEY'S PERFUMERY PRODUCTS

WERE AWARDED

GRAND PRIX, Turin International Exhibition, 1911.

GOLD MEDAL, Brussels International Exhibition, 1910.

WRIGHT, LAYMAN & UMNEY, LTD.

SOUTHWARK, LONDON, S.E. 1.



By Appointment to His Majesty the King.

Remember to Order CORVUSINE DG

THE FAMOUS LIQUID SEED DRESSING

CORVUSINE DG is used on Seed-corn for drilling approximately ONE MILLION ACRES ANNUALLY. Your farmer friends are using it—keep a stock and see you secure their orders.

ORDER AT ONCE TO AVOID TRANSPORT DIFFICULTIES.

Another Quick-Selling Agricultural Line!



NILFLI



A Powder Dressing to be shaken with the seed before drilling.

ROOT CROP PROTECTOR

Keeps away the "Fly" from Turnips and other Roots.
An invaluable Preparation to Root Growers.

TESTIMONIALS.

THE DAIRY FARM,
GT. PACKINGTON,
NR. COVENTRY.
October 20, 1918.

Messrs. HAWKER & BOTWOOD.

I find your Fly Powder to be the best I ever used for Swedes and Mangolds. It keeps the fly off, and stops all wireworm from taking the plants.

Yours faithfully,

(Signed) H. WARD.

OLD FARM,
MERIDEN,
October 15, 1918.

Dear Sirs,

I have pleasure in giving a testimonial for the Turnip Seed Dressing which I used this year with good results. I shall require some more next year, for I shall not sow any Turnip Seed again until dressed with your Turnip Seed Dressing.

Yours truly

(Signed) SYDNEY ARNOLD.

ADVERTISING MATTER SUPPLIED.

Trade Terms and Particulars from the Manufacturers:

HAWKER & BOTWOOD, Ltd., 50 Mark Lane, London, E.C. 3

To ensure Quick Delivery depots have been established in IRELAND & SCOTLAND.

HIGH CLASS SURGICAL DRESSINGS

*YOUR Customers are sure to be pleased with our new series
of STANDARDISED SURGICAL DRESSINGS,
unsurpassable in quality, the last word in neatness and
attractive packing. :: :: Prices speak for themselves.*

ABSORBENT COTTON WOOL (IN PACKETS).

	1lb.	8oz.	4oz.	2oz.	1oz.	$\frac{1}{2}$ oz.
"E" Quality (Green Label)	1/8	1/8 $\frac{3}{4}$	1/9 $\frac{1}{2}$	1/11	2/2	2/8 per lb.
"C" " (Blue Label)	2/2	2/2 $\frac{1}{2}$	2/3 $\frac{1}{2}$	2/5	2/8	3/2 "
"Superfine" Quality (Gold Label)	2/9	2/9 $\frac{1}{2}$	2/10 $\frac{1}{2}$	3/0	3/3	3/9 "

ABSORBENT GAUZE TISSUE (TUBULAR).

	1lb.	8oz.	4oz.	2oz.	1oz.
No. 1	2/6	2/6 $\frac{3}{4}$	2/7 $\frac{1}{2}$	2/9	3/- per lb.
No. 2	3/6	3/6 $\frac{3}{4}$	3/7 $\frac{1}{2}$	3/9	4/- "

LINT.

	1lb.	8oz.	4oz.	2oz.	1oz.
Plain Hospital	3/5	3/5 $\frac{3}{4}$	3/6 $\frac{1}{2}$	3/8	3/11 per lb.
Plain Superfine	3/9	3/9 $\frac{1}{2}$	3/10 $\frac{1}{2}$	4/-	4/3 "
Boric	2/7	2/7 $\frac{3}{4}$	2/8 $\frac{1}{2}$	2/10	3/1 "

BANDAGES (6 yds.)

	1"	1 $\frac{1}{2}$ "	2"	2 $\frac{1}{2}$ "	3"	4"	5"	6"
"N" (W.O.W.)	13/7	20/-	26/2	32/6	38/10	51/6	64/-	76/6 per gross
"K" "	11/7	17/-	22/2	27/9	32/10	43/4	54/-	64/8 "
"L" "	10/-	14/6	19/-	23/6	28/-	37/-	45/10	55/- "
	1" x 3 yds.	1 $\frac{1}{2}$ "	2"	2 $\frac{1}{2}$ "	3"			4" x 4 yds.
"NH" Quality (W.O.W.)	8/6	16/-	21/-	26/-	31/-			40/10 per gross
" " (G.O.W.)	6/7	12/9	16/8	20/7	24/6			32/5 "

ABSORBENT GAUZES.

	Price per 100 yds.	Price per 6 yds.	Dozen 3 yds.	Packets. 1 yd.
"AA" Quality	14/5	10/8	5/9	2/3
"BB" "	16/10	12/8	6/3	2/6
"CC" "	17/8	12/10	6/11	2/9

TERMS: Home Trade, 2 $\frac{1}{2}$ % discount monthly account, on receipt of references.

EXPORT: Net F.O.B. English Port. Indents through merchant shippers. Export packing extra at cost.

WE INVITE YOUR INQUIRIES FOR ALL CLASSES OF SURGICAL DRESSINGS.

London Orders to Craven House, Kingsway, W.C. Telephone No.: 6867 Gerrard.

ROBERT BAILEY & SON,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.

CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

HUGE ADVERTISING

FOR

VEN-YUSA SHAMPOO POWDERS



PRICES :

1/6 size :

Containing seven
3d. packets,

13/6 dozen

Carton containing
6 doz. 3d. packets,

11/- each.

5% Window-show allowance on a 50/- parcel
(cash with order), or £5 parcel (credit terms).

Orders can be assorted with other lines.

ORDER A SUPPLY NOW

FROM

C. E. FULFORD, LTD.

CARLTON HILL, LEEDS.



C We would be honoured by your request for sample of Reindeer Chemically Pure Glycerine and particulars of our service.

CHRISTR. THOMAS & BROS., LTD

Distillers of Reindeer Glycerine

BROAD PLAIN, BRISTOL

Established 1745

The Arabic numerals (1 to 46) in this Index refer to Advertisements in the front of literary pages; the Advertisements following the literary pages are numbered in Roman numerals (I to Lxiv).

[illegible]

Sole Proprietor :
FERNAND RENE LANG

Charlton Works, Charlton Place - - ISLINGTON, LONDON, N. 1.

BRITISH SACCHARINE TABLETS

"THE DAVINS" STAG'S HEAD BRAND

The KEEN PHARMACIST will only buy the BEST, but he expects the PRICE to be right as well as the QUALITY.

Our Tablets have been REDUCED in PRICE, but the QUALITY remains the SAME. Our Pharmacist friends like them, and so do their Customers, as shown by the following extracts from letters received:—

A Stirlingshire Pharmacist writes:—"Your tablets gave complete satisfaction and were specially asked for."

A Derbyshire Pharmacist writes:—"Our Customers certainly prefer your make."

A Derby Pharmacist writes:—"A Customer has for years had the American brand, but since trying them declared yours are better."

A Glasgow Pharmacist writes:—"Your tablets were simply great."

A Ripley Pharmacist writes:—"I intend to have practically all my British Saccharine from you in the future."

MAY WE ADD YOUR NAME TO OUR LIST?

Send us the favour of your inquiries for PILLS, TABLETS and profitable PACKED LINES.
DAVIES, SONS & CO. (DERBY), Ltd., The Bridge Street, DERBY.

FUSEL OIL

FIRST - HAND SUPPLIES.

DE GROOT BROTHERS,

Schiedam, Holland.

CHANGEABLE LETTER SIGNS

Most effective, artistic and NOVEL. Letters do not fall about once placed in position.

300 Letters and Figures to each Sign.

Size 18 by 14 inches, in Wooden Frame, price 10/6.

Two for 18/-; Size 11 by 15, price 7/-, Two for 12/-.

Sent carriage paid on receipt of Postal Order.

Dominion Trading Co., 50 Adelaide Rd, London, N.W.3

PURE ORANGE WINE A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only)
London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

"Corruganza" SEAMLESS Ointment Boxes.

GREASEPROOF.

BRITISH MADE.

Better than the old Willow Boxes, because they are stamped out of one piece, and the bottoms cannot fall out.

MILLIONS SOLD ALREADY.

REPEAT ORDERS DAILY.

Send at once for Price List (Wholesale or Export only) to the Manufacturers—

HUGH STEVENSON & SONS, LTD., Summerstown, London, S.W. 17.

FILTER CLOTH

SAMUEL HILL, Ltd.

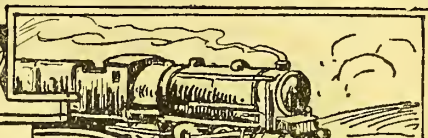
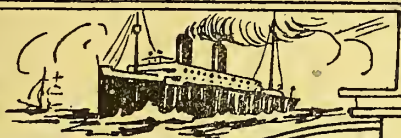
Hunters Lane, ROCHDALE.

Manufacturers for all purposes.

COTTON, WOOLLEN and LINEN.

Telegraphic Address: "Filtering Rochdale."

Telephone No.: 956 Rochdale.



BRIDGE BRAND.

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

*R. W. GREEFF & CO. offer at lowest prices
for prompt delivery from London and Liverpool stocks.*

Acetanilid
Acetyl Salicylic Acid
Barbitone
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cocaine
Eucalyptus Oil
Guaiacol Carbonate
Homatropin
Hydroquinone
Isarol (best Ichthyol substitute)
Lecithin
Lithia Carbonate

Lithol (Ichthyol substitute)
Methyl Salicylate
Paraldehyde
Phenacetin
Phenazone
Phenolphthalein
Potassium Sulpho Guaiacolate
Pyrogallallic Acid
Resorcin
Salicylic Acid
Salicylate of Soda
Salol
Tannin Albuminate
Terpene Hydrate
Vanillin

*Enquiries solicited for our usual range of
Pharmaceutical and Photographic Products.*

R. W. Greeff & Co.

THAMES HOUSE, QUEEN ST. PLACE, LONDON, E.C.4

MANCHESTER BRANCH:

Lloyds Bank Buildings, King Street.

NEW YORK AGENTS:

R. W. Greeff & Co., Inc., 80, Maiden Lane.

USEFUL LINES FROM STOCK.

SUBJECT TO BEING UNSOLD ON RECEIPT OF ORDER.



VACUUM FLASKS.

JAPANNED CASE.
NICKEL-PLATED.
SCREW CUP WITH
INSULATED WIRE
HANDLES.

Shock - absorbing
Spring at Bottom.

Approximate
Capacity 1 pint.

10/6 Each.

SPECIAL LINE.

As above, but with plain N.-P. Cup.
No handles.

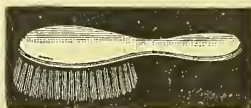
8/6 Each.

SPECIAL OFFER.



NAIL BRUSHES.

Large and Well-fitted.
Size 4½ in. by 1½ in.
6/6 Doz. 75/- Gross.



HAIR BRUSHES.

White Bristles.
Polished Backs.
F. 7755 51/3 Doz.



SHAVING BRUSHES

F. 7742 Boxwood 21/3 Doz.
F. 7740 25/-
F. 7743 White Bone 75/-



TOOTH BRUSHES.

Good Quality, in White Bone.

F. 7892 10/6 Doz. F. 7752 15/9 Doz.
F. 7753 17/6 " F. 7501 18/9 "



In
Rolls

In
Packets.

PACKETS.

WHITE NEWS	200 Sheets	100/-
A. R. NATURE	192 "	90/-
BUFF NATURE	200 "	10/-
M. G. CAP	192 "	100/-
2 Gross Lots, A sorted, Carriage Paid.		

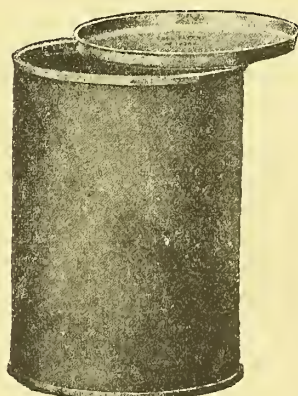
ROLLS.

PRICES SUBJECT TO CASH DISCOUNT NLY, 2½%

HOODS Ltd., INTERNATIONAL EXCHANGE, EDMUND STREET, BIRMINGHAM.

COMPOSITE CONTAINERS

WITH PATENT TOPS



WITH PATENT LID
(AIRTIGHT and WATERPROOF).

We are makers of these
in various sizes and
qualities, and our
THREE FACTORIES
are at your disposal.
LET US QUOTE YOU.

THE IDEAL PACKAGE FOR
CHEMISTS & DRUGGISTS



WITH CARDBOARD DISC
(AIRTIGHT and WATERPROOF).

SUITABLE FOR WET
OR DRY GOODS.

ESTABLISHED 1845.

Phone : 6290 CENTRAL.

Telegrams : " RECEPTACLE."

J. B. DYSON & SON, Ltd., Freeman St., BIRMINGHAM.

PRELIMINARY ANNOUNCEMENT.

FASSETT & JOHNSON LTD.

in thanking the Wholesale and Retail trade for their kind consideration and helpful assistance in handling enquiries during the recent period of shortage, are now pleased to offer supplies of

**DIAMOND
DYES****FOR HOME DYEING.**

The successful reliable kind that always give satisfaction.

POPULAR SHADES NOW AVAILABLE:

Wool and Silk.

BLACK
NAVY BLUE
LIGHT BLUE
BROWN
CARDINAL RED
DARK GREEN

Cotton and Mixed Goods.

BLACK
NAVY BLUE
LIGHT BLUE
BROWN
CARDINAL RED
DARK GREEN

6d. *size only.*

3/6 *per doz.*

An assortment to meet immediate requirements, limited to the above shades only, is offered to regular buyers. Particulars on application.

DIAMOND DYES in full assortment of the sixteen Standard Shades for Wool and for Cotton shortly available, of which due notice will be given.

**DIAMOND
DYES**

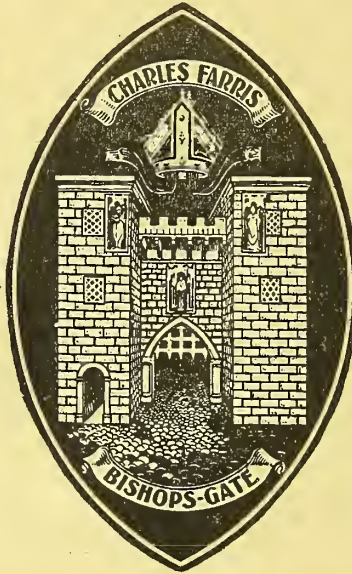
86, CLERKENWELL ROAD, LONDON, E.C.1.

"FARRIS'S"

Real Old-fashioned Genuine Air Bleached

BEEES

WAX



The ONLY Actual MANUFACTURING WAX CHANDLER in the City of London.

Cataline prevents and cures inflammatory Diseases in Cattle.

TO THE TRADE.

Are you stocking
CATALINE?

If not, now is the time to send us your orders.

During this month we are posting 200,000 circulars to 200,000 Farmers, and all Live Stock Owners.

Many of these are your customers.

They will be asking YOU for Cataline.

CATALINE PLEASES YOUR CUSTOMERS
THE SALES WILL PLEASE YOU

IS
WHAT **CATALINE** YOU
WANT

ONE SIZE, ONE PRICE. RETAILED AT
FACE VALUE, NAMELY, 2/6 PER BOTT.
1 DOZ. AND 3 DOZ. CASES FREE
6 DOZ. CASES CHARGED 1/- EACH

Our best cash with order, carriage paid, prices are :—
1 dozen 26/- 3 dozen 25/- per doz. 6 dozen 24/- per doz.

Write now for particulars of new 5 per cent. bonus offer.

Stocked by most Wholesale Houses.

THE CATALINE CO., BRISTOL

WINDOWS ARE STOCK ROOMS

THROUGH the window the potential purchaser views the goods that you have for sale, and decides in his or her mind whether or not a certain article that you have displayed is required.

¶ Isn't it common-sense, therefore, that a smart shop front will attract many more potential customers than a dull and uninteresting one?

¶ Why not get the best sales-value you can out of your window?

¶ We will gladly keep any appointment you care to make to discuss the matter with you.

HASKINS SHOPFITTERS

20 - 34 OLD STREET, LONDON, E.C.1.

Telephone :
City 2985 (4 lines)

Telegrams :
"Curvilinear, Barb, London"

Issued by Saml. Haskin & Bros. Ltd.

Maw's Page

S. MAW · SON · & SONS · LTD.

7/12, ALDERSGATE ST.,

LONDON,
ENGLAND,
E.C.1

TELEPHONE: CITY 7. Private Branch Exchange.
TELEGRAMS: ELEVEN CENT. LONDON
CABLES: ELEVEN LONDON CODE A B C 4th & 5th EDITION

No. 384.
Feb. 22, 1919.

BRUSHWARE

A SELECTION OF "MILITARY" CASES

These serviceable brushes are put up complete with comb in solid hide leather cases. The following prices cover a comprehensive range of qualities:

No.		Brushes	Cases
		Rows doz. each	
B2	Satin, Grey Bristles,	9 30/-	8/6
0207	" White "	9 33/-	9/-
7176	" Yellow "	10 39/-	10/-
7177	" " "	11 45/-	11/-
8869	Ebony, White "	11 54/-	12/6
519	" " "	10 72/-	16/-
294	" " "	12 120/-	25/-



Many men are replenishing their toilet accessories; an opportunity to make good with a hair brush display is here offered.

MAW'S POCKET INHALER

Here is a handy and seasonable line. Maw's Pocket Inhaler is most useful for the inhalation of formalin, pine and other medicaments. Simply remove india-rubber nose-piece and sprinkle the required preparation on the cotton wool provided inside the glass container. Each in strong tube.



4/3 doz.



The growth of "Parex" Toilet Requisites is an indication of the growth in popularity of these "something better" preparations. They are made and put up to attract the public and to satisfy the public.

"Parex" (Regd.), Toilet Preparations include Tooth Powder, Dental Cream and Liquid Dentifrice, Hair Pomade and Shampoo Powder, Lip Pomade and Beauty Leaflet, Shaving Stick, Perfume Sachet and Talcum Powder. They are used by Madame and M'sieur, and by the Man—and Woman—in the street who study quality *and* economy.

"PAREX"

TOILET REGD.
PREPARATIONS

HOURS OF BUSINESS, 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS

"Maw's—the House of the Moment."

THE VERDICT OF DISCRIMINATING CRITICS

"I have a high opinion of M. & J. Chemicals. Aspirin M. & J. does not cause pyrosis, that other makes have done."—M.B., C.M.

"I have compared M. & J. Aspirin with other makes, but get quicker physiological action from M. & J. than with any other brand."—M.B., B.S.

"I have used your Tablets with the most perfect and satisfactory results. The patients I treated with your tablets did not complain of either sickness or depression."—L.R.C.P., L.R.C.S.

"I find my customers prefer your Aspirin Tablets to any other make. Therapeutically they are excellent and they are compressed just to the right point."—A Pharmacist.

Acetyl-Salicylic Acid, B.P., Tablets, 5 gr., bts. of 25, 6/- per doz.
(M. & J. Brand) " " " 100, 20/6 "

Choice of neat labels.

Own name and address.

Prompt dispatch.

Carriage Paid on 40/- orders.



MENLEY & JAMES, Ltd.,

"Menley House," Farringdon Road, LONDON, E.C. 1

Contractors to H.M. WAR OFFICE.

Works—CAMBERWELL, LONDON, S.E.

METOL

NEARLY all the METOL-JOHNSONS has been required by the Government to help to win the war. Now that the Armistice is signed there will undoubtedly be a gradual easing off of War Office requirements, so that Metol-Johnsons will be available for Professional, Commercial and Amateur Photography.

Metol-Johnsons is the pure chemical, is made at JOHNSON & SONS' works in London, and is supplied in bottles of all sizes for the Home and Export Markets.



JOHNSON & SONS, Manufacturing Ltd.
Chemists,

23 Cross Street, Finsbury, LONDON, E.C. 2.

IN ACCORDANCE WITH SUGGESTIONS OF H.M. HOME OFFICE.

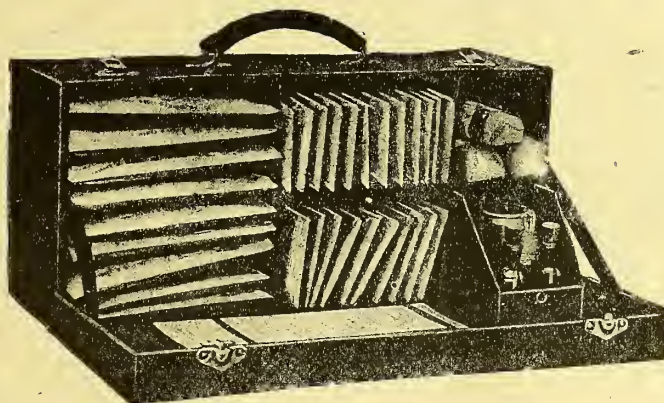
Trade
Mark

'St. John's Gate'

Brand

First-Aid Equipment

No. 1.



Comprises a neat First - Aid Storage Case, covered in black cloth—Attache case form—designed so that it may be readily carried about, and also fitted with rings for hanging on wall.

EXTERNAL DIMENSIONS :

$16\frac{1}{4} \times 7\frac{3}{4} \times 5\frac{1}{4}$ inches.

Internal fittings consist of six divisions, and sliding bottle holder.

CONTENTS :

3 doz. Small-size Sterilized Dressings, for injured fingers.
1 doz. Medium-size Sterilized Dressings, for injured hands and feet.
1 doz. Large-size Sterilized Dressings, for other injured parts.
1 Bottle of Eye Drops, No. 1.

1 Bottle of Eye Drops, No. 2.
Sterilized Cotton Wool.
Triangular Bandage.
Assorted Sterilized Roller Bandages.
First-Aid Leaflet, issued by H.M. Home Office.

Under licence from the Secretary of State, the No. 1 EYE DROPS (containing Cocaine) are included in equipments supplied to owners or occupiers of factories, or to persons or firms qualified under Defence of the Realm Regulations, 40B.

Price - 25/-

NET.

Trade Terms on Application.

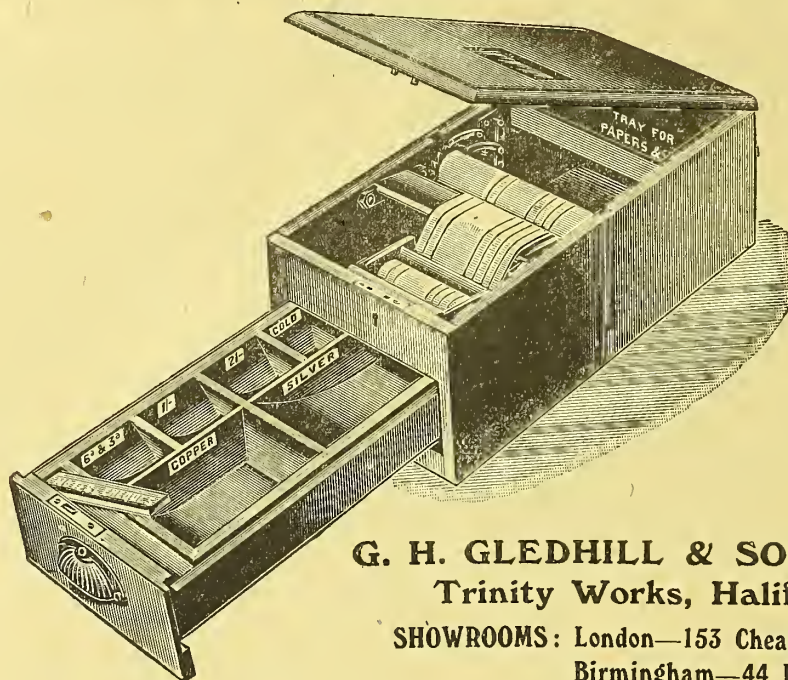
ISSUED BY—

FASSETT & JOHNSON, LTD.

Manufacturers of Surgical Dressings and Appliances, 86 Clerkenwell Road, LONDON, E.C.1



GLEDHILL TILLS.



G. H. GLEDHILL & SONS Ltd.
Trinity Works, Halifax.

SHOWROOMS: London—153 Cheapside.
 Birmingham—44 Hill Street.

GLEDHILL Tills have been almost unprocurable during the war. We decided that it was more important to win the war than make cash tills, so turned our works over to the production of fine accurate munition work. Our experimental work was also turned over to war purposes, and early in 1917 Mr. A. H. Gledhill invented the Bomb-releasing Gears which are now standard on British Aeroplanes. We have manufactured enormous quantities of these gears. Our plant has been considerably augmented, and we are consequently enabled to make the Best Cash Till Better Still. We thank our customers for their patience, and are now endeavouring to clear off arrears of orders at full speed.

**Order now to secure delivery immediately after
 the arrears in our books have been cleared.**

G. H. GLEDHILL & SONS Ltd., Halifax

Petroleum Emulsion



We are giving prompt delivery of AYRTON'S PETROLEUM EMULSION with the Hypophosphites of Lime, Soda and Potash. It is as good in its way as is the Cod Liver Oil Emulsion, for which we are famous.

We have many styles from which you will be able to select a label that will just meet the requirements of your Pharmacy, and as is usual with our products, Show-cards can be had on request.

Petroleum Emulsion is especially good for the treatment of Chronic Coughs, and its use should be recommended in conjunction with the usual Cough Mixture.

PRICES ARE—

BULK				
1 to 4	5 to 10	11 to 20	21 to 50	100 gallons
14/-	13/9	13/6	13/3	12/9 per gallon

PACKED						
3	4	6	8	12	16	20 ozs.
7/3	8/3	10/9	13/9	18/3	23/6	27/6 per dozen

QUANTITY PRICES FOR PACKED EMULSION ON REQUEST

**Particulars of Ayrton's
Cod Liver Oil
Emulsion**

occupied page 15 in the
'ssue of Feb. 8.

AYRTON, SAUNDERS & CO. LTD.
LIVERPOOL

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK

FRAME FOOD

ON P.A.T.A. LIST. SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

BRAND'S ESSENCES

OF

BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

BRAND & Co., Ltd., MAYFAIR WORKS, VAUXHALL, LONDON, S.W.

HOOKER'S MALTED MILK

"A complete food." — *Lancet*.

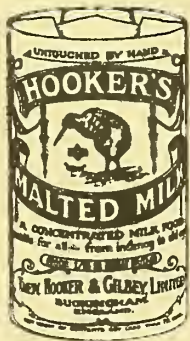
SELLS ENTIRELY ON MERIT.

There is no Higher Quality or Better Value

BRITISH MADE & BRITISH OWNED

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.



PRICES AND TERMS FROM

THEW, HOOKER & GILBEY, LTD., BUCKINGHAM.

New Product of Genatosan, Ltd.

GENASPRIN

(Brand of acetyl-salicylic acid)

Nearly 80 p.c. Profit on your Capital Outlay

"The claim is substantiated that this preparation (Genasprin) is a particularly pure specimen of acetyl-salicylic acid," says *The Lancet*; and a Physician writes in *The Medical Times*: "In Genasprin we have an aspirin tablet possessing marked advantages over all other forms of acetyl-salicylic acid."

That is why we are confident, with *your* co-operation, of making this the best selling aspirin on the market. Owing to the shortage of bottles our advertising is at present restricted, but it will be gradually extended, and meanwhile we can guarantee prompt delivery of all orders from pharmacists everywhere who would like to anticipate the coming demand.

Note these Generous Trade Terms and order Genasprin now.

Face Value. Retail price per doz., one size only, 2/- (35 Tablets)	Trade price per doz.	Profit per doz.	Percentage of Profit on Capital Outlay	Percentage of Profit on Sale
24/-	16/-	8/-	50%	33⅓%
10% Advertising Discount for <i>Mixed</i> Order (Sanatogen, Formamint, &c., including any quantity of Genasprin) to total £7 10 0				
24/-	14/5	9/7	66.5%	40%

Special advertising discount for Direct Cash Orders (Genasprin only)

For every Retail Order for 7 dozen Bottles an allowance of ½-dozen additional Bottles is made, in consideration of a fortnight's window show being given.

7½ Doz. Bottles at 2/- each	Trade Price for 7 doz., less 10% Advertising Discount on £5 order. Genasprin only	Profit per 7½ doz.	Percentage on Capital Outlay	Percentage on Sale
£9 0 0	£5 0 10	£3 19 2	78.5%	44%

GENATOSAN, Ltd. (British Purchasers of The Sanatogen Co.)
12 CHENIES ST., LONDON, W.C. 1. (Chairman: The Viscountess Rhondda.)

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

The following prices will come in force as from the date of this issue :—

Advert. Price		Minimum Retail Price	Minimum Wholesale Price
1/3	Woolley's Phenate of Soda Solution	1/3	10/9 doz.
2/-	" " "	2/-	16/9 "

Retail Subscriptions.

AN appeal has recently been posted to non-members urging them to join early in 1919, and stating reasons. A fair number have responded but a very much larger increase is required, and we invite those who have not remitted to forward their seven-and-sixpence (7/6) without delay. Address the Secretary, P.A.T.A., 113 Temple Chambers, E.C. 4.



Saint-Raphael

**Tonic, Restorative,
Digestive Wine.**

**Known throughout the World,
and prescribed in all cases of
ANÆMIA, DEBILITY, and CON-
VALESCENCE, to Young Women,
Children and the Aged.**

DOSE: One Wine-glass after the
two principal Meals.

Recommended by—
PROF. BOUCHARDAT, Professor of Hy-
giene, Paris Faculty of Medicine.
DR. MACNAUGHTON JONES, London,
England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Rostan, Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laennec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—**DR. C. DES BARRES.**

**Cie du VIN SAINT RAPHAEL, Valence, Drome,
FRANCE.**

**To be obtained from all
Wholesale Druggists.**

The FRENCH Natural Mineral Water.

VICHY-CÉLESTINS

AND THE OTHER STATE SPRINGS OF VICHY.



**We beg to remind the Trade that the above are being regularly imported
and we have ample supplies always on hand.**

VICHY-CÉLESTINS and the other State Springs of Vichy Waters
are being continually prescribed by the leading Physicians,
and Traders would do well at all times to carry a stock.

THE VICHY WATERS ARE ON THE P.A.T.A. LIST, & SHOW RETAILERS A GOOD PROFIT

CAUTION.—Each bottle from the STATE SPRINGS bears a neck label
with the word "VICHY-ETAT" and the name of the SOLE AGENTS:

INGRAM & ROYLE, LTD.,
Bangor Wharf, 45 Belvedere Road, LONDON, S.E., and at
LIVERPOOL and BRISTOL.

EGG PRESERVING— BEST WATER GLASS.

We are the largest packers, and only use best quality Water Glass, 140 T.W., and thoroughly sound containers, sent in strong *screw* cases, carriage paid. If you have not received our price list, please write. We can give definite delivery, a satisfactory article, and attractive advertising matter. Your own name and title on labels.

A PROFITABLE LINE,

and, please note, carriage paid, which is a consideration on this heavy article. We pack a good POULTRY SPICE.

TOMLINSON & HAYWARD, LTD.
LINCOLN.

THE PROBLEM OF
ENVELOPE SHORTAGE
SOLVED !!!

SAVE MONEY! SAVE TIME!!
SAVE ENVELOPES!!!

By using the

REINDEER
"SELF-LOCK"
STATIONERY

For your

ORDER FORMS, STATEMENTS,
INVOICES, &c.

Write for Samples to

JAMES F. WILKINSON

(Exors.: G. F. Berry & J. G. Driver),

Printer, Bury St., Pendleton, Manchester.

CHELTINE FOODS CO., CHELTENHAM.

DIABETES

FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc.
Also Foods for Anæmic, Dyspeptic, Invalid and Aged People
and Infants. Highly recommended by Medical Profession.
INFANTS' FOODS packed under Chemists' "OWN NAMES."
Terms and all particulars on request.

ALL CHEMISTS
SHOULD STOCK

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral
Waters. Sold in Packets, 1½d. each; Boxes of 13 packets, 1/6.
Wholesale Prices on application. Sample Box 1/6.

D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

Pyrogallic Acid Gallic Acid

Manufactured by **J. L. ROSE,**

At ABBEY ROAD, BARKING, LONDON, E.

Wholesale and Export only.

COTTON WOOL 1/8 per lb.

In 1-cwt. lots; 56-lb lots 1/9 per lb.

Nice and white, absorbent, interleaved, 1-lb. rolls
Carriage paid, cash with order, in 1 cwt. and 56-lb. bales.
Wrappers 3/6 extra, returnable. Sample for p.c.
A satisfied client writes: "The wool seems excellent value."
Another one: "The wool is most satisfactory."

JAS. Q. MILLS, Chemist, Platt Bridge, Wigan.

SIDE LINE FOR CHEMISTS

STATIONERY



YOU will benefit by writing for particulars of our
"APPRO." SCHEME.

STATIONERY FOR CHEMISTS ONLY

Daintily designed Cabinets, Writing Pads, and Compendiums, combining Envelopes, Notepaper, Blotting, etc. Easily and quickly served. **33 $\frac{1}{3}$ % Profit.**

ATTRACTIVE COUNTER

Your chief competitors sell Stationery—why not share the advantage?

J. R. LOCKWOOD & CO., LIMITED,

Wholesale and Manufacturing Stationers, Prescription and Account Book Makers, Chemists' Demys, Toilet Rolls and Wrapping Paper Merchants, Label Printers.

168 St. John Street, London, E.C. 1.

Telephone:
CENTRAL 7411.

The Mark of



Quality

Reliability

Registered Trade Mark

ELLIOTT OPTICAL CO.

(Proprietor: GUY E. DRUIFF)

104/5 Gt. Saffron Hill,
LONDON, E.C. 1.

ERNEST JACKSON & CO.,

Manufacturing Chemists. Ltd.
Specialists in: COMPRESSED TABLETS, MEDICATED LOZENGES, &c.

INVENTORS
OF

Glossettes
REGD.

THE ORIGINAL
(cushion-shaped)
PELLETS of

LIQUORICE & MENTHOL,

and other Sugar-free Combinations for Complaints of the Respiratory Organs.

N.B.—The Manufacture of NON-MEDICINAL GOODS is SUSPENDED until Sugar restrictions are relaxed.

Offices & Works: **CREDITON, DEVON.**

Telephone: Crediton No. 10. Telegrams: Jackson Crediton.
London Depot: Plantain Place, Crosby Row, Borough, S.E.
Telephone: Hon 2668

**WHOLESALE
ONLY.** MANUFACTURERS OF

Established
1901

Surgical Dressings,

Absorbent Lints, Bandages,
Cotton Wools, Gauzes, &c.

Samples and prices on application.

VERNON & CO., Ltd., Penwortham Mills **PRESTON.**

Also 9 Fore Street Avenue, LONDON, E.C.

Branch Works: Waterfold Mills, Heap Bridge, BURY.

PRIZE COURT SALE. IN PRIZE.

By Order & for Account of the Marshal of the Admiralty.

To be sold by Public Tender.

Ex SS. "Pennsylvania," lying Hull.

1,857 bags WINE LEES

(Approximate weight about 112 tons)

Tenders, in envelopes marked "Tender for Wine Lees," and addressed to the Admiralty Marshal, Royal Courts of Justice, London, W.C.2 must be received not later than noon on Wednesday, March 5, 1919. Further particulars may be obtained on application to D. W. Gre enough, Brokers, 21 Mincing Lane, London, E.C.3.

ART OF DISPENSING. (9th Ed.) 6/-, by Post 6/6.

VETERINARY COUNTER PRACTICE. 4/6, by post 5/-.

CHEMISTS' DICTIONARY OF MEDICAL TERMS. 3/-, by post 3/4.

THE CHEMIST AND DRUGGIST 42 CANNON ST., E.C.4.

WHY NOT

OBTAIN OUR QUOTATION for the Showcards, Tickets, Posters, and Lantern Slides you are ordering?

We give Satisfaction in Price and Work.

TRY US!

F. MERTEN, 112 Warham Rd., Harringay, London, N. 4.
(Discharged Soldier) Late F. M. & Co., of Holloway.

ATTRACTIVE

APPEARANCE

USE
THE

DEMON SEALING MACHINE

THE QUICKEST, SIMPLEST & SUREST
METHOD OF PARCELLING.

Ask for particulars and samples, or,
better still, our representative will
be pleased to call and demonstrate.

GUMMED PAPERS LTD.

Regd. Offices:

47 RUTLAND ST. LEICESTER

PARNALL

— AND SONS —

Established over 100 Years

Actual Makers of SHOP FRONTS

In Metal and Wood

Designs & Estimates Free



London Shop Front in Mahogany.

*One of some hundreds of Chemists' Shops we
have fitted throughout. Let us help you!*

Actual Makers of SHOWCASES of every description

Examples of our Work in every Town

Works: BRISTOL

— 128 Branches now Open —

CENTRAL
OFFICE

BIRMINGHAM

SUMMER
ROW

'Ongard' Guarded Coil
Safety Pins **RUST PROOF.**
For Surgical & Nursery Purposes.



SOLE MANUFACTURERS
GEORGE GOODMAN LTD.,
BIRMINGHAM.

Stocked by **JAMES L. HATRICK & CO., LTD.,**
 70 St. John St., Clerkenwell Rd., LONDON, E.C. 1.

"PLANO"

The best thing out for Rough Skin and
CHAPPED HANDS.

Sold everywhere at the popular price—3d.
TRADE PRICES: 6 doz., 12/- net: 12 doz., 23/6,
 carriage paid.

13 to the dozen for Cash with Order.
 Discount Orders of 20/-, 2½ %; £5, 5 %; £10, 7½ %.

SPECIAL OFFER.

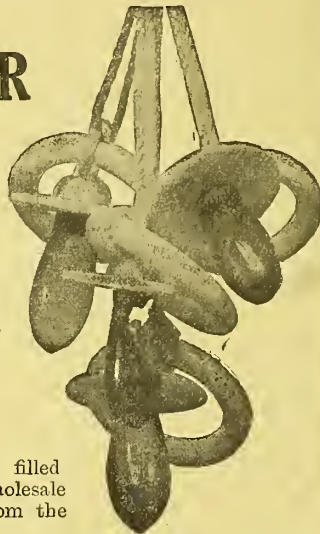
13 doz. Tablets, with Advertising Matter, 23/6, less 2½ %
 (£1 2s. 11d. net). Cash with Order.

Recent Testimonial. *October 1918.*
 "I am delighted with the result of 'Plano' Please send some
 more for my friends, who think it marvellous."

MILNER'S CHEMICAL CO., LIVERPOOL.

The "EVERSAFE" BABY PACIFIER

*Patented
 Everywhere*



PRESENT RATES.

No.	
2.	4d. line 2/8 doz.
2C.	6d. " 3/- "
9.	6d. " 3/- "
3.	7½d. " 4/6 "

Orders promptly filled
 through the wholesale
 trade, or direct from the
 Patentees.

Trial orders, minimum value 13/6 cash with
 order, carriage paid U.K. from

F. SCHUTZE & CO., Ltd.,
Black Bull Works, London, N.

TELEPHONE NO.
CITY 65.

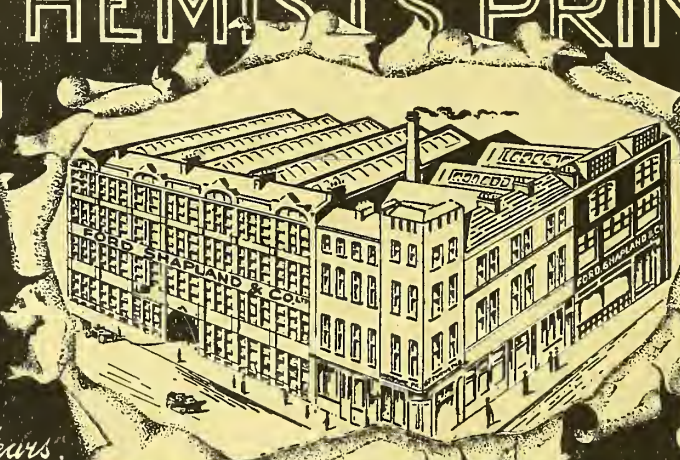
THE HOUSE FOR

TELEGRAMS.....
FORSHAPPO, WESTCENT, LONDON.

CHEMISTS' PRINTING.

Send us
 your
Enquiries

Established
 Over 70 Years.



Labels.
 Cartons.
 Show Cards.
 Shampoo and
 Corn Silk
 Envelopes, &c.

FORD, SHAPLAND & CO LTD

**GREAT TURNSTILE,
 HIGH HOLBORN, LONDON, W.C. 1.**

AGENTS FOR THE
 REGISTRATION OF
 TRADE MARKS.

INCREASING POPULARITY OF "HARLENE HAIR DRILL."

EVERY DAY EMPHASISES THE NECESSITY
FOR MEETING THE PUBLIC DEMAND.

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties and increasing expense, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.

HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?



NOTE—The Contents of the Free HARLENE OUTFITS Comprise:

- | | |
|-------------------------------|---|
| 1. A Trial Bottle of Harlene. | 3. A Trial Bottle of "Uzon" Brilliantine. |
| 2. A "Cremex" Shampoo Powder. | 4. Book of Instructions. |

FOLLOW THE TIDE OF SUCCESS.

Watch the great Free Gift Advertising Campaign that brings the Customers to your shop.

No Chemist or Store can afford to be without this unique line of Toilet Preparations.

"HARLENE" FOR THE HAIR	"ASTOL" FOR GREY HAIR
"UZON" BRILLIANTINE	"CREMEX" SHAMPOO POWDERS
"ASTINE" VANISHING CREAM	"ASTINE" SHAVING STICK
"ASTINOL" AROMATIC FLUID.	

For Particulars, Advertising Literature, &c., write to

EDWARDS' HARLENE, Ltd.

20, 22, 24 and 26 LAMB'S CONDUIT STREET, LONDON, W.C. 1.

Retail
Price

1/-



No
Cutting

“ERASMIC” Shaving Stick

Does not dry on the face.

Owing to the enormous demand you are able to turn over your stock of “ERASMIC” three or four times as quickly as any other shaving soap.

NO DEAD STOCK. NO MONEY LYING IDLE.

We offer a good profit on a line for which there is a tremendous sale.

Price List on Application.

“ERASMIC” Perfumers, WARRINGTON.

ANNOUNCEMENT

THE MASTER BONE BRUSH MAKERS' ASSOCN.
(Representing all the Bone Tooth Brush Makers of repute in the country)

D In view of the prevailing uncertainty regarding prices in the immediate future, the Association desire to announce officially the rates agreed upon by their members.

These rates have been fixed after a most careful revision of present conditions and costs, and a further advance will be avoided so long as possible, although a serious addition to cost has been incurred by an Arbitration Award granting a further increase of wages to all female workers from Jan. 1, 1919. There is at present no indication of any reduction in price, the tendency throughout being in an opposite direction.

TOOTH BRUSH PRICES.

Best	4-Row	3-Row
Assorted	18/- doz. ...	13/6 doz.
Hard White or Yellow...	20/- doz. ...	15/6 doz.
Special Patterns	20/- doz. ...	15/6 doz.
Ex. Hard White or Yellow	22/- doz. ...	18/- doz.
Children's, 9/6 doz.	Tom Thumb, 7/- doz.	
Seconds, Assorted, 13/6 doz.		
Dental Plate, Ex. Hard, 22/- doz.		
5 Rows, 26/- doz.		
Perforated, 3 and 4 Row, 6d. doz. extra.		
Children's, 3d. doz. extra.		

BRITISH INDUSTRIES FAIR

1919

February 24 to March 7 (inclusive).



**ARE EXHIBITING A FULL RANGE OF ELECTRICAL
NOVELTIES, PORTABLE LIGHTING SETS,
POCKET LAMPS, TORCHES & BATTERIES
AND ELECTRO-TECHNICAL APPARATUS**

WE extend to the Home Trade and Overseas Buyers a cordial invitation to inspect our Exhibits.

The Exhibition is held at the London Dock, Pennington Street, London, E.C. 1, from February 24 to March 7 inclusive.

Prospective Buyers should make application to the Board of Trade, British Industries Fair, 10 Basinghall Street, London, E.C. 1, for Admission Tickets, as the Exhibition is not open to the General Public.

BOOK TO MARK LANE STATION.

STAND C51.

NOTICE

THE THERMOGENE COMPANY desire to inform their friends that the unprecedented demand for Thermogene lately experienced has taxed the capacity of the Works to the utmost. Delay in delivery has taken place, but additional machinery is now being installed, and it is confidently believed that the trouble will soon be overcome. In the meantime buyers are informed that no advantage can be gained by diverting their orders to the Thermogene Company, as these will be returned with a request to apply to usual wholesaler.

BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

**IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.**

Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

**PIPERAZINE CITRATE
IS MADE ONLY BY
ALFRED BISHOP, LTD.**

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the

Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

**WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL
QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.**

Prices and Particulars on application to—

**ALFRED BISHOP, LTD. MANUFACTURING
CHEMISTS,**

48 SPELMAN STREET, LONDON, E.1.



PUT THE
Ker-nak
 BOY
 IN YOUR WINDOW
 NOW!

EXPENSIVE MODEL LENT FREE.

This beautifully coloured figure, standing 24 inches high, will be sent securely packed in crate, carriage paid, to every chemist purchasing **Ker-nak Pills to the value of 50/-**. These will be supplied on the usual Window Show Terms of 5 per cent.

The only stipulation is that, after 2 weeks' show, the Ker-nak Boy must be sent to a new address which will be supplied.

ORDER FORM.

NAME

Address

Date

To Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds.

Please send "Ker-nak Boy." I agree to give 2 weeks' window display, and forward the figure (carriage at your expense) to a new address which will be supplied. I enclose order which includes at least 50/- value of Ker-nak.

Yours truly,

Signature

PRICES OF KER-NAK: 1/3 size, 12/6 doz.; 3/- size, 28/- doz. (Minimum Prices Face Value)

Phone—Avenue 3959.

Telegrams—"Aveltonkom, Fen, London."

JOHN ELTON & CO. Ltd.

(Cutlery
D pt.)

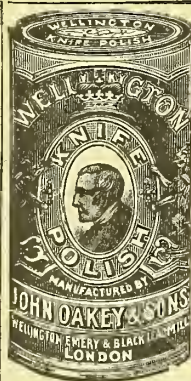
9 Mincing Lane, LONDON, E.C. 3.

Next turning to
Mark Lane Station

Manufacturers and Sole Selling Agents for
SHEFFIELD
STAINLESS STEEL DESSERT & TABLE **CUTLERY**
SCISSORS of all descriptions
RAZORS AND PENKNIVES

Stock of all the above lines in our Showrooms at above address,
 and for prompt delivery.

Call or send your inquiries *immediately*.



OAKLEY'S "WELLINGTON" KNIFE POLISH

The original and only reliable
 preparation for Cleaning and
 Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d.,
 1s., 2s. 6d., and 4s. each.

JOHN OAKEY & SONS, L.M.

MANUFACTURERS OF

Emery Cloth, Black Lead

GLASS PAPER, &c.

"WELLINGTON" KNIFE POLISH

The Original Preparation for Cleaning Cutlery.
 Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

SILVERSMITHS' SOAP

For Cleaning & Polishing SILVER, ELECTRO-PLATE,
 etc. Tablets, 6d.

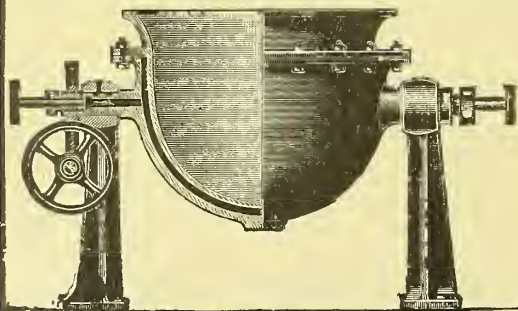
"WELLINGTON" BLACK LEAD

In Solid Blocks, 1d., 2d., and 4d. each, and 1s. Boxes.

Polishing Paste, Furniture Polish, Plote Powder, Rouge,
 Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black.

Westminster Bridge Road, LONDON, S.E. 1.

ENAMELLED IRON APPARATUS



Suitable for all Temperatures and Pressures.

DANTO ROGEAT & CIE,

33-39 Chemin des Culattes, LYONS, France.

Suppliers before the War to the largest European
 Manufacturers of Chemical Products.

Write for Price List to Sole Representative:

H. SLOOG, 51 Anson Road,
LONDON, N.W. 2.

Tel.: Willesden 1752.



TRADE MARKS.

Telegraphic Address:
"EKLIPS LONDON."
A B C Code, 5th Ed.

On the List of Government Contractors,
The Crown Agents for the Colonies, etc.

Tel phone No. :
1831 Hep.

MEDALS AND AWARDS:

LONDON, 1881. VIENNA, 1883. CALCUTTA, 1884.
CHICAGO, 1893.

SYNTHETIC OTTOS

"ZINYL" Brand (Regd.)

TRUE SYNTHETIC PRODUCTS

	Price.
BERGAMOTTE. A substitute for Natural Bergamotte Oil	17/6 lb.
CARNATION. Intensely fragrant, exactly resembles the flower	8/6 oz.
GERANIUM. Much stronger than the natural perfume ...	5/- oz.
HELIOTROPE. The true odoriferous principle of this delightful flower.	10/6 oz.
HYACINTH. Gives a fine delicate perfume	9/6 oz.
JASMIN. A true synthetic product of great delicacy	10/6 oz.
LILAC. We consider this Otto one of the best of the series ...	9/6 oz.
LILY OF THE VALLEY. A perfect imitation of the flower.	13/6 oz.
NEROLI. Of exquisite flavour; very useful in making Eau de Cologne.	8/6 oz.
ORANGE BLOSSOM. A very delicate perfume, though not so powerful as some of the series.	9/6 oz.
PINK. An exquisite product, true to the flower	8/6 oz.
ROSE. One of the finest and most delicate Synthetic Ottos on the market. The "Zinyl" Brand passes the most discriminating tests, and is almost indistinguishable from genuine Otto, and though much stronger costs but a fraction of the price.	21/- oz.
ROSE RED. This is the Red Rose of Provence	21/- oz.
ROSE WHITE	18/- oz.
SWEET PEA. A novelty recalling the delightful odour of this favourite flower.	10/- oz.
SYRINGA. Also a new product	10/- oz.
VIOLET. A universal favourite in general demand	10/6 oz.
VIOLET DE PARME. A variation of the preceding Otto	15/- oz.
WALLFLOWER. Recalls this beautiful old-fashioned flower	10/6 oz.

H. E. STEVENSON & CO.

122 GREAT SUFFOLK STREET, LONDON, S.E. 1.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - - - MANCHESTER

EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content 70/80%
Optical Rotation 0 to 1
Specific Gravity '919 to '928
Absolutely Free from Phellandrene.

Quotations by cable, Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.

New Postal Address— Cables—"Burnside Company,
439 Flinders Lane, Melbourne. Melbourne."

PURE ESSENTIAL OIL OF HOP.

Singly and fractionally distilled.

HIGHEST CONCENTRATION AND PURITY GUARANTEED.

Prices, samples and information
from the distillers:—

WHITE, TOMKINS & COURAGE, LTD.

HEAD OFFICE:

48 Mark Lane, LONDON, E.C. 3,

And at

LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow
and golden, for pharmaceutical
purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller
packages according to requirements.

Inquiries are solicited for this article
of **BRITISH MANUFACTURE**, and
buyers may rely that for quality and
price it will meet any competition

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool."

BAISS BROTHERS  **& COMPANY, Ltd.**

SCAMMONY RESIN

Lump or Powder.
In wholesale quantities.

MEDICINAL EXTRACTS

of all kinds, solid and liquid.

Belladonna, Hyoscyamus, etc., etc.

PRICES AND SAMPLES ON APPLICATION.

BAISS BROTHERS & COMPANY, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments,

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

range Works, 174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.1
Drug & Herb Farm: CARSHALTON, SURREY.

Established 1858.

SAVE 3/- PER GALLON
BY BUYING
GUARANTEED GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

SACCHARIN TABLETS

Our Tablets are still guaranteed full strength, and made from Government Saccharin, viz.: '3, 550 strength, but at considerably reduced prices, as under:

Tins of 100, 12/6 doz. ; Tins of 200, 24/- doz. ; Tins of 500, 59/- doz. ;
 Bulk, 9/6 per 1000 ; or, 65/- per lb.

£2 Orders Post Paid.

THOS. GUEST & CO., Ltd., Manufacturing Chemists, Carruthers Street, ANCOATS, MANCHESTER.

LONABARC TRADING COMPANY
 LIMITED

PURE SPANISH ESSENTIAL OILS

ROSEMARY SPIKE LAVENDER GERANIUM

PENNYROYAL THYME (Red & White) SAGE

SWEET & BITTER FENNEL ORANGE & LEMON

ACONITE ROOT THYMOL LAVENDER FLOWERS
GENTIAN ROOT QUINCE SEEDS

60 FORE STREET, LONDON, E.C. 2.

Send the Coupon for one or all of three really attractive Showcards.

The Pomeroy Toilet Preparations, which are of pre-war purity and excellence, are more and more being demanded by discriminating purchasers. Some most attractive showcards are in course of preparation and will be issued as soon as possible for the three Specialities shown below. These Showcards can be either hung or used in pedestal form. The size in each case is 8 in. by 6 in. Fill in the Coupon to-day and state whether you require the Showcards for one or three of the Specialities.

**Pomeroy
Skin Food**
1/6, 3/6 & 5/- Pots

**Pomeroy
(MENTHO-CARBOLIC)
Tooth Paste**
1/- Tubes.

**Pomeroy
Day Cream**
2/6 & 5/- Vases.

Trade Terms for all Pomeroy Preparations free from

Mrs. POMEROY, Ltd., 115 Harwood Rd., Walham Green, London, S.W. 6.

To
Mrs. POMEROY, Ltd.,
115 Harwood Road,
Walham Green, London, S.W.
Please send as soon as possible a supply
of Showcards for Pomeroy Skin Food,
Pomeroy Tooth Paste, Pomeroy Day Cream.
(Cross out those not required.)



WILOWISP CRÈME d'ARAK

*An ideal
VANISHING CREAM
for the Face and Hands. Neither
greasy nor sticky.*

**PROMPT SUPPLIES.
ATTRACTIVELY PACKED.
LIBERAL TERMS.**

RETAIL (P.A.T.A.) 1/- PER POT.

Wholesale Price, 8/- per dozen. Window Show terms on application.

Also "Arak Foam" Shampoo, "Henna" Shampoo, "Dry" Shampoo.

ALL WELL-KNOWN GOOD SELLING LINES.

JOHN TIMPSON & CO., Ltd., 104 & 106 GOLDEN LANE, London, E.C. 1.

'GRAMS: " Porous, Barb, London."

'PHONES: City, 6910 6911.

CROSFIELDS' CHEMICALLY PURE GLYCERINE. PYRAMID BRAND.



The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14 $\frac{1}{2}$, 28 $\frac{1}{2}$ & 56 $\frac{1}{2}$ TINS. (WOODEN CASES.)
1, 2 $\frac{1}{2}$, 5 & 10 CWT. DRUMS. (RETURNABLE)

JOSEPH CROSFIELD & SONS LTD Chemical Manufrs. WARRINGTON.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

The Super Paste.

SOLE MANUFACTURERS & PROPRIETORS:

A. & E. CARRERAS, *Perfumers,*

Offices: 207 King St., Hammersmith, London, W. 6.

Telephone:
HAMMERSMITH 600.
Telegrams:
"ESOLINDOL, HAMMER,
LONDON."



THE FOLLOWING

NEW ARRIVALS

SPIKE LAVENDER OIL
SPANISH ROSEMARY OIL
CEDARWOOD OIL
PEPPERMINT OIL
THYME OIL TERPENES
ARTIFICIAL SASSAFRAS
TERPINEOL

WE CAN OFFER TO ADVANTAGE.

ALLEN'S THYMOL

FINE WHITE CRYSTALS.

ESTABLISHED 1833.

STAFFORD ALLEN & SONS LIMITED

Manufacturing Chemists,

LONDON AND LONG MELFORD.

Regd. Offices—9 COWPER ST., FINSBURY, E.C.2.

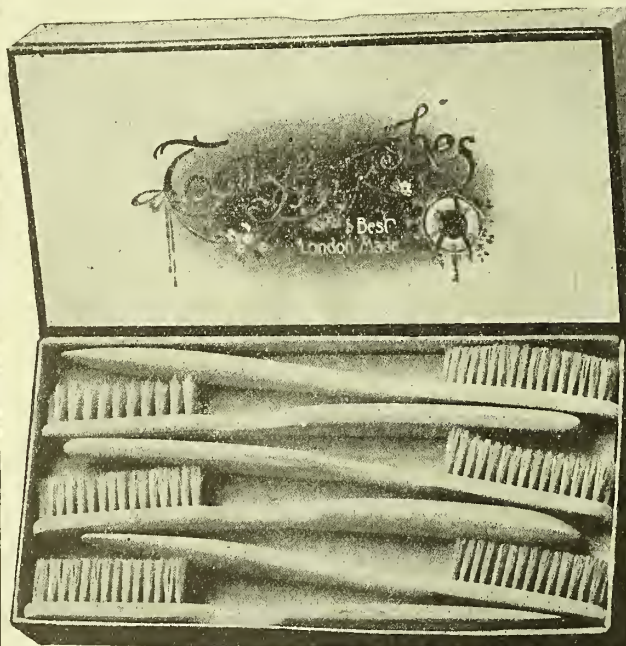
Telegrams—
"Persic, Finsquare, London."

Telephone—
London Wall 6556 (3 lines).

DEMOBILISATION.

CHEMISTS can now obtain and should specify
ROBERT ADDIS & SONS' TOOTH BRUSHES,

and refuse foreign substitutes.



THE "BEST" TOOTH BRUSH.

(MADE IN ENGLAND.)

Numbered in Neck, to denote Pattern, and lettered to denote Bristle, viz. :

V.H.—Very Hard (Unbleached White). **H.**—Hard.
M.H.—Medium Hard. **M.**—Medium.
S.—Soft. **V.S.**—Very Soft.
V.H.Y.—Very Hard (Unbleached Yellow).

Made by Skilled Workers of Best Bone and Super Quality Bristle, with ADDIS' INDESTRUCTIBLE ENAMEL BACKS in any colour desired by customer.

Hand Drawn in silvered wire with secured bristles.

These brushes will be found to be infinitely superior to the old-fashioned wax back or the inferior machine-punched brushes now placed on the market which will be found to be unreliable and dangerous.

Packed as above, in high-class labelled box,

Price 18/- per doz. Retail, 2/3.

We also manufacture two Cheaper Lines of Best Brushes, where Cut Prices are required, viz. :

BRITISH BEST, 15/- per doz. Retail 1/10½
STANDARD, 13/6 " " " 1/8

TO BE OBTAINED FROM WHOLESALE HOUSES.

Jensen's

FINEST NORWEGIAN NON-FREEZING

Cod Liver Oil.

IN TIN-LINED BARRELS, GALLON DRUMS,
WINCHESTERS & BOTTLES.

HALIFLOR

Natural Floral Essences

ONE DROP (Alcoholic Free) NATURAL PERFUMES.

FLOROZON

PATENT

Chloride of Ammonium

Inhaler

NOW SO LARGELY ADVERTISED IN PUBLIC PRESS.

LIQUIPAR

OUR RUSSIAN

Liquid Medicinal Paraffin

B.P.

Brand (Registered).

IN BULK (10-Gallon Drums), or in 8 & 16-oz. BOTTLES.

Price Lists, Booklets, Showcards, etc., and Samples from ALL-BRITISH FIRM—

HERTZ & CO. (Founded 1878) 9 Mincing Lane, London, E.C. 3

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill



Geranium

Ginger

Juniper Berry

Lavender

Lemon

Limes

Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary

CITRAL

EUCALYPTOL



CINNAMIC

ALDEHYDE

GERANIOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition),
Western Union.

Telegrams: "LANDSLOH LONDON,"
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO, INC., 99-101 Beekman St., New York.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, Toronto.

BIDWELLS' LTD.

invite inquiries
for

HAIR BRUSHES

Good Value.

AXMINSTER

DEVON.

CRAVEN'S PILE CURE

THE most successful remedy ever known for this painful and distressing condition. Relieves pain immediately and gives speedy and permanent relief. Soothing, healing, and antiseptic, it **HAS NEVER YET FAILED.**

It braces up the relaxed walls and dries loose tissue. Chemists will find a ready demand for it, and are invited to write for **SPECIAL TRADE TERMS.**

One price only, 2/6 per box.

G. CRAVEN, 324 Bensham Lane, Thornton Heath, S.W.

"Newbery's"
FRANCIS NEWBERRY & SONS LTD.

Cream Embrocation

GOOD REPEATER

Giving clear profit of **33 $\frac{1}{3}$** per cent. on
Protected Retail Prices.

QUALITY - RIGHT
PRICE - RIGHT
PROFIT - RIGHT

PRICES (P.A.T.A.):

1/3 Retail	....	10/-	per dozen.
2/3 "	....	18/-	"

**CHARTERHOUSE SQUARE,
LONDON, E.C.1.**

'ATLAS' MODERN CHEMICAL MACHINERY



See our previous advertisements.
BRITISH MADE THROUGHOUT.
CHEMICAL & EXPLOSIVES FACTORIES COMPLETELY FITTED WITH MODERN MACHINERY. (2)



**USE UNSKILLED LABOUR DO WORK
QUICKER, SAVE LABOUR.**

Labour-Saving Machinery

**FOR GLASS BOTTLE FILLING,
JAR FILLING, SHALLOW TIN FILLING,
FLASK, CAN AND DRUM FILLING.**

Machines for filling all liquids and semi-liquids in any shape
or size of receptacle. Write for particulars.

**Roberts' Patent Filling Machine Co.
BOLTON.**

Labour-Saving Machinery, in comparison to what it can
save, **NEVER COSTS SO LITTLE AS NOW.**

THE REASON WHY

Essential Oils
Aromatic Chemicals
Flower Oils

YOU ARE SEARCHING IS THAT
YOU ARE NOT SATISFIED

YOU ARE NOT SATISFIED BECAUSE
OTHERS ARE GETTING BETTER RESULTS

OTHERS ARE GETTING BETTER RESULTS
BECAUSE THEY USE P. & S. PRODUCTS

P. & S. PRODUCTS ARE USED BECAUSE
BUYERS ARE BENEFITING BY THEM

THEY ARE BENEFITING BY THEM
BECAUSE THEY EARN MONEY

THEY EARN MONEY BECAUSE
THEY ARE USING THE PRODUCTS OF

POLAK & SCHWARZ, LTD.

ZAANDAM
HOLLAND

BOIS-COLOMBES
FRANCE

EST. 1889.

THREE GOOD SELLERS THAT PAY WELL

FROZOCLONE

(The original solid Eau de Cologne).

(Regd.)



THE WORLD'S GREAT
PERFUME AND
REFRESHER IN
SOLID FORM

Retails (P.A.T.A.)
Minimum - 2/6
giving at least 8d. Profit
on each sale.
22/- - - - per doz.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

CARNATE (Regd.)

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum 1/6; 12/- per doz.

ANALAX

(Reg. Pat. No. 310716).



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum 2/3
21/- per doz., stamped.

R. DEMUTH'S LABORATORIES, 68 Salusbury Road and
Montrose Avenue, LONDON, N.W. 6

Telegraphic Address: "Boulbene London."

Telephone: 525 Willesden.

DIADEM COMPLEXION WAX

Completely supersedes the customary greasy Toilet Creams. Is most pleasant in use and commands ready sales. Attractively produced in elegant large jars.



DIADEM FACE POWDER

possessed of the elusive fragrance of Diadem Cream, adheres readily to the skin. Made in Blanche, Naturelle, Rachel, Rose and Sunburn tints. Packed in large artistic boxes, in the distinctive Robartes' style and colouring. A sure seller.

DECOLTENE

The liquid hair remover

The intelligent depilatory. Simple, safe, effective, and harmless. Can be used while performing the toilet. Daintily packed.

DIADEM CRÈME ROUGE

Gives an undetectable and natural colour to the cheeks. Far more convenient in use than the existing dry rouges. Easily removable whenever desired. In dainty jars.

DIADEM VANISHING CREAM

A cream of rare purity and charm, put up in novel white globes which have an irresistible appeal and packed in dainty boxes in Robartes' attractive style. Handsome profits for you in selling.

Dinkie
The Dainty Deodorant

An attractive line that enjoys good sales. A greaseless cream that takes all odour out of perspiration. Packed in attractive jars.

Trade Terms.

	P.A.T.A.	Trade per doz.
Diadem Face Powder ..	2/6	20/-
„ Complexion Wax ..	2/6	20/-
„ Crème Rouge ..	2/6	20/-
„ Vanishing Cream ..	3/9	30/-
Decoltene Depilatory ..	3/9	30/-
Dinkie Deodorant ..	2/6	20/-

Notice.

Artistic Showcards and Counter Matter free on request.
Robartes, Ltd. Preparations are obtainable from all leading wholesale houses.
Largely advertised in all the leading dailies, weeklies and monthlies.
Further particulars and descriptive booklet forwarded on request.

ROBARTES, LTD., 128, Jermyn Street, London, S.W. 1.



The EVAN WILLIAMS'
ORIGINAL
Henna Shampoo

Our Business Policy

Our exceptional facilities have enabled us to secure the first arrivals of raw materials, and consequently difficulties of supply are being gradually overcome.

We thank our many friends for their consideration during the difficult period of shortage, and hope to fill orders as received at an early date.

The EVAN WILLIAMS' HENNA SHAMPOO is the only product of our factories. We rely solely upon this for our business, and are therefore the Henna Specialists. Our sales depend entirely upon the extremely high standard of quality which, as specialists, we are able to guarantee. Send order for Henna Shampoo to

The EVAN WILLIAMS Co. Ltd.
18 & 18a OGLE ST. FOLEY ST. LONDON W.I.

(1)



The Finest Quality
Aerated Waters are
made only with
the Finest Quality
ESSENCES

**Boake
Roberts'**
Soluble Essences are
of the finest quality
and being extremely
concentrated are
most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash Vanilla

A. Boake Roberts & Co. Ltd.
Stratford, London.

BRITISH MADE TIN FOIL

Highly polished foils—printed, lacquered, embossed or plain.
Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

Manufactured by

Venesta Ltd.
1 Great Tower St. E.C.
London
England

Special Offer this issue

BORIC ACID

CHLORIDE BARIUM.
OXALIC ACID.
ACIDS FOR EXPORT.
FORMIC ACID.
GUM TRAGA-CANTH.

GLUES, GELATINES.
GUMS AND WAXES.

INKS.
SEASONS.
FINISHES.
LOGWOOD PRODUCTS.

CHEMICALS

GUM ARABIC.
BORAX.

SODA HYPO.
BICHROMATES.
CHROME OXIDES.

IRISH MOSS.

DYE-WOOD &
TANNING EXTRACTS

OILS, CHROME AND FAT LIQUORS.

GOUGH, KIDSTON & CO.

12 BERMONDSEY SQ., LONDON, S.E.

City Office: 43-45 Great Tower Street, E.C.

Tel. Add.: "Oughidston, Phone, London." Phone: 2029 Hob.

Cellophane

**What
Is It?**

CELLOPHANE

is pure Cellulose, **absolutely** air, grease, and odour proof, strong and pliant, unexplosive, **unaffected** by cold, heat or moisture.

The best Substitute for Gelatine and Tinfoil.

An ideal wrapping for Drugs, Perfumery, Confectionery, Provisions, &c., and all articles of Toilet.

Will keep your Goods, Boxes, Bottles, Labels, &c., **clean**.

Can be had plain transparent, coloured and embossed.

Also in the shape of Discs for Creams, Ointments, Boot Polishes.

CELLO-DRESSINGS.—A perfect and sterilisable dressing and packing medium for Bandages, Surgical Dressings, Instruments, &c.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(LECLERCQ & CHARÉLAT),

15 Cullum Street, London, E.C. 3.

**READY
SELLER**

**GOOD
PROFIT**

"ZOTAL" LINIMENT

**THE
HOUSEHOLD
REMEDY.**

RELIEVES
Rheumatic Lumbago,
Sciatica,
Muscular Pains,
Stiffness of the Joints,
Neuralgia,
Colds, Sore Throats,
Chilblains, Etc.

**THE
HOUSEHOLD
REMEDY.**

**Counter
Bills
supplied**

**Show-
Cards
supplied**

*Full directions for use
enclosed.*

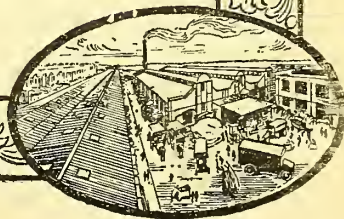
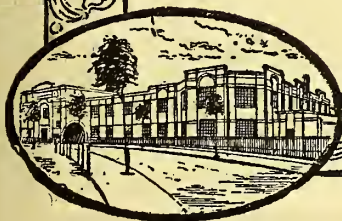
Price 1/3 per bottle.

SOLE PROPRIETORS:

**BURGOYNE,
BURBIDGES & Co. Ltd.
East Ham, London, E.**

PRICE 10/6 DOZ.

Telegrams: "Zotalene, Phone, LONDON."
Telephone: EAST HAM 686 (four lines).



Telegrams:
"Refreshing, Cent, London."

ENTIRELY BRITISH

Telephone:
Central 4461, 4462.

All-Glass Sprays, Medical and Surgical Glassware

Manufactured
by

R.J. REUTER

Established
1892

Manufacturer of and Dealer in Chemists' Sundries,
69 CARTER LANE, E.C.4.

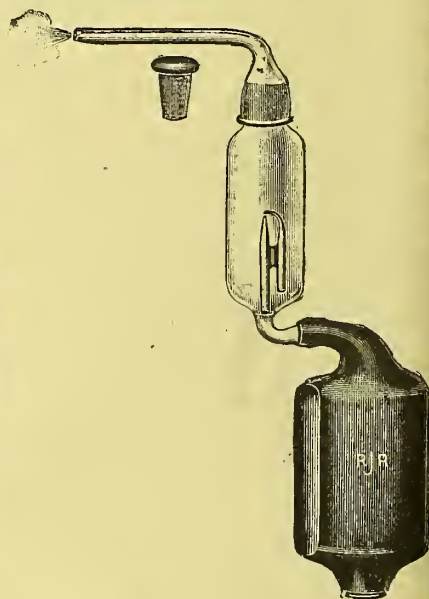
We invite inquiries for all types of lamp-blown glassware. As we have our own Glass-Blowing Establishment in London, we are in a particularly advantageous position to quote for and submit samples of All-Glass Throat Sprays, Atomisers and other high-class surgical requisites. Price Lists on request.

Trade 'Vēvax' Mark Pocket Cloudiser (ALL-GLASS)

Extremely compact. Highly efficient. Thoroughly aseptic. Suitable for either oily or heavy aqueous solutions. Will pulverise and sub-divide the heaviest oils into a perfectly nebulous cloud. Price 45/- per dozen, subject.



CLOSED
FOR POCKET.



Trade 'Vēvax' Mark

READY FOR USE.

Oro - Nasal Inhaler

(ALL-GLASS)



Can easily be sterilised, and is therefore pre-eminent for the application of medicated vapours to the respiratory tracts. Enables the vapour to be inhaled by the nose and mouth at the same time. Issued in neat slide boxes suitable for pocket, with small bottle for medicament. Price 14/6 per dozen, subject.

The GERMAN CHEMICAL OCTOPUS

CRIPPLED BY

BURROUGHS WELLCOME & Co.

IT is largely due to the scientific achievements of Burroughs Wellcome & Co. before and during the War, that the British Fine Chemical Industry has been freed from the toils of this sinister monster.

The following are some of the fine chemicals and alkaloids which supplant German products:—'Kharsivan,' 'Neokharsivan,' 'Wellcome' Alkaloids and Salts, 'Salicylates,' 'Tabloid' Aspirin, 'Tabloid' Phenacetin, 'Tabloid' Photo Chemicals, Benzamine Salts, Hexamine, Glycerophosphates, etc., etc.

Pilocarpine and its salts were manufactured at the 'Wellcome' Chemical Works, on a commercial scale, in 1900; Eserine and its salts in 1901; Homatropine in 1905.



BURROUGHS WELLCOME & Co., LONDON

NEW YORK MONTREAL SYDNEY CAPE TOWN
MILAN SHANGHAI BUENOS AIRES BOMBAY



TOMODA & COMPANY,

WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny), Singapore.

FACTORY: Hiranuma, Yokohama.

LABORATORY: Marunouchi, Tokyo.

THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil, Argent Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylate Soda, Sulphate Iron, Staraniseed, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger, etc. etc. Also Glasswares and Bottles.

Correspondence respectfully invited to

TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.

*"Mr. Benger's
admirable
preparation."
The LANCET.*



**For INFANTS,
INVALIDS and the AGED.**

55

On the P. A. T. A.

Minimum Retail Prices
(Face value).

No.0 size.	No.1 size.	No.2 size.	No.3 size.
1/4	2/-	3/9	7/6
per tin.			

Wholesale of all Wholesale Houses and Shippers
or from the Manufacturers:

BENGER'S FOOD LTD.,—MANCHESTER, Eng.
Branch Offices: New York & Sydney. Depôts throughout Canada.

Money Never Bought Better

value than this; Chemists tell us this in the most emphatic way by their "bigger than ever" custom. No Chemist need fear to say to the most fastidious customer—
This is the Best—because it is so.

CHRISTY'S COLD CREAM

IN THE PRETTY "TWO-GREEN" CARTON

is white, homogeneous, never separates, bland, super-soothing. It is put up beautifully, too, and never goes rancid or lets a Chemist down. Moreover, the profit is very good, too.

5/- PER DOZ. P.A.T.A. **8 1/2d.** EACH

**MAY WE SUPPLY YOUR NEEDS NOW
FOR HOME OR FOR EXPORT**

CHRISTY'S
OLD SWAN LANE, E.C. 4.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in Australia, New Zealand and South Africa.

SUBSCRIPTION RATES.

FIFTEEN SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 6d.; *Diary* 3s. 6d. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 15s., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 15 ch., franco.

Terms for advertising may be obtained on application to the Publisher
Head Office: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams: "Chemicus, Cannon, London." Telephone Central 3617 (three lines).
Branch Offices: MELBOURNE AND SYDNEY, AUSTRALIA.

CONTENTS: No. 8 (Series No. 2039), Vol. 91.

	PAGE		PAGE
Bankruptcy Reports	53	Interrupted Apprenticeships	52
Belgian News	51	Irish News	49
Births	57	Japan's Opium and Morphine Trade	56
Business Changes	49	Legal Report	52
Coming Events	47	Marriages	57
Correspondence:		More Tales of Oenophus	67
Letters	70	Netherlands Notes	51
Legal Queries	71	New Companies and Company News	52
Miscellaneous Inquiries	72	Observations and Reflections	59
Deaths	57	Personalities	56
Editorial Articles:		Pharmaceutical Society of Ireland:	
Japan's Trade in Morphine	50	Council Meeting	54
A French Pharmaceutical Dilemma	60	Pre-War Imports of Chemicals	67
Index Notice	61	Retrospect	72
Sampling Saccharin Tablets	61	Scottish News	50
Dentists Acts Committee	61	Sheffield Pharmaceutical and Chemical Society	53
Exporting Proprietary Articles	61	Trade Notes	58
What are Fine Chemicals?	62	Trade Report	68
Belgian Pharmacy's Aims	62	Westminster Wisdom	58
English News	47	Wills	57
French News	50	Winter Session	63
Information Department	58		
Insurance Act Dispensing	62		

Coming Events.

Monday, February 24.

British Industries Fair, 1919, London Dock (Pennington Street premises) opens. Tickets from the Board of Trade (British Industries Fair), 10 Basinghall Street, London, E.C. 2.

Wednesday, February 26.

Chadwick Public Lectures. Medical Society of London, Chandos Street, Cavendish Square, London, W. 1, at 5.15 p.m. "The Use of Colloids in Health and Disease," by Mr. Alfred Searle.

Thursday, February 27.

South-East London Chemists' Association, Maitland House, 134 Greenwich Road, Greenwich, London, S.E., at 3 p.m. Mr. W. S. Glyn-Jones on "Pharmaceutical Topics."

Friday, February 28.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5.30 p.m. Sir Oliver Lodge, D.Sc., F.R.S., on "Ether and Matter."

HALIFAX CHEMISTS' ASSOCIATION.—The annual dinner will be held at the Old Cock Hotel on March 13 at 6 p.m. Tickets (7s. 6d. each) from Mr. R. V. Sutcliffe, Hon. Sec., 64 King Cross, Halifax.

PETERBOROUGH CHEMISTS' ASSOCIATION.—The annual dinner will be held at the Angel Hotel on March 13 at 5.30 p.m. Tickets (8s. 6d. each) from Mr. Chas. Hamson, 46 Cowgate, Peterborough.

GRENADA SPICES.—The upward tendency in production that had continued for six years was not maintained, the exports in the crop year ended September 30, 1917, showing a decrease of 402,079 lb. in quantity and 16,901*l.* in value. The prices in 1917 increased enormously, promising a very satisfactory monetary return.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Regulations Altered.

Since the last list was published in THE CHEMIST AND DRUGGIST (February 8, p. 35) the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 70. *Chocolates*.—The Sale of Sweetmeats (Restriction) Order, 1918, which prohibited the sale of chocolates by traders whose gross receipts from the sale of confectionery in 1916 were less than 20 per cent., is to be revoked from March 1. Arrangements have been made by the Royal Commission on the Sugar Supply by which the distribution of their output by manufacturers will be controlled in such a way as to guard against the small trader being again exposed to those hardships from which the Order has protected him.

P. 72. *Lard*.—By an Order dated February 14 the restrictions are removed on the use of lard in the preparation of articles other than foodstuffs. Lard may now be used in the manufacture of ointments.

P. 73. *Oatmeal*.—The Oatmeal (Restriction) Order, 1918, which restricted the use of oatmeal to human food, has been revoked.

P. 74. *Sugar*.—The Dealings in Sugar (Restriction) Order, 1917, which prohibited dealings in sugar outside the United Kingdom except under permit, has been revoked. The Royal Commission on the Sugar Supply has issued a statement regarding the stocks of sugar in this country. The amount is 364,000 tons, sufficient to provide the present ration for eleven weeks. The country is now dependent on cane sugar. Before the war two-thirds of our sugar supply came from Germany and Austria. The wholesale selling prices are about 2*l.* per ton below the price at which sugar could be got from Java and about 11*l.* per ton below the price of Cuban sugar. The estimate which has been made by the Royal Commission on the Sugar Supply of the world's production and consumption for 1919 shows that there will only be a moderate margin of supply over consumption.

Birmingham.

Influenza is again extending here.

It is understood that important business was discussed at the council meeting of the local Association on February 18.

An Association has been formed in Birmingham for research work, the primary object of which is to combat the Isle of Wight disease in bees.

Offers for the poison-cupboard and contents at Mr. Hall's sale (*C. & D.*, February 8, p. 35) was rigidly restricted to qualified chemists, whose credentials the auctioneer assured himself of before the bidding began.

The authorities have reduced the face-value of the manufacturers' sugar permit to half; but with the document is sent a statement that the face-value will be honoured to the extent of four times the quantity stated thereon. "A mad world, my masters!"

Mr. B. G. Watson, chemist and druggist, Alcester Lane's End, has sold his pharmacy. Mr. Watson is one of the many pharmacists who have the medical qualification in view, and he is studying at the Birmingham University with that object. Mrs. Watson, who is a B.Sc. (Lond.), has a large and successful school in King's Heath.

At a Rotary Club lunch on February 17, Mr. Wilfrid Hill indulged in a severe criticism of our banking system—"a bad system run by good men," he called it. He expressed a liking for the French system, under which tradesmen, instead of sending out monthly statements to customers, draw on customers' banking accounts and let the banks do the collection.

The "Birmingham Mail" of February 25 asks whether chemists' wine-licences are abused. One of two pharmacists who were interviewed said that he would put a ban on the sale by chemists of proprietary medicated wines—he referred to 20 per cent. wines. He only allowed sales on medical certificates; and, as the business did not appear to answer, he wiped it out altogether. Another chemist was equally emphatic, saying that he did not sell the preparations, and had not a wine-licence. He added that the frequency of inquiries at the counter seems to show pretty clearly that from the customers' point of view the sales by chemists were not serving a legitimate purpose.

Bradford.

Influenza is again spreading here. It does not appear to be of so violent a type as that of the last epidemic, but chemists and doctors are again very busy. During the week ended February 13 there were thirty-six deaths certified as caused by influenza.

Liverpool.

The pneumonia now prevalent is of a very virulent type. A recurrence of rain has been accompanied by an increase of influenza cases.

Four Controllers in Mersey City have adopted as many different ways of dealing with pharmacists on the sugar supply lists.

Mr. J. G. Duncan, chemist and druggist, Albion Street, Wallasey, has transferred his Mount Road branch to his manager, Mr. J. E. Phillips.

The University of Liverpool has sustained two great losses by the deaths of Dr. W. B. Warrington and Dr. A. M. Paterson. Dr. Symes and Mr. Prosper Marsden attended the obsequies.

Customers who return empty medicine or perfume bottles confer a boon on chemists. It is an evidence of the proverbial wastefulness of the English that so many bottles are flung into "middens"—or into the streets.

A central-area chemist who, though suffering from overstrain, persists in opening for an hour on Sunday evenings, replied to a remonstrance by reminding his critic that he was taught, during apprenticeship, never to forget his duty to the public.

Nottingham.

Most chemists find themselves in difficulties owing to the shortage of bottles, and substantial inducements are offered to customers to return these receptacles.

Mr. A. Eberlin (Waterall & Eberlin, Chapel Bar) was unsuccessful in his candidature at the recent City Council by-election in Bridge Ward. Very little interest was taken in the election, however, only about a fifth of the voters going to the poll.

The sudden increase of the sugar ration and the consequent lowering of the price of saccharin has involved several chemists in heavy losses, one retailer declaring that he will be 500l. out of pocket. Many Nottingham retailers seem to have been carrying heavy stocks of this sweetener, and they had been badly hit, for they now find that they have to sell 100 tablets for 1s.

There is at present an unprecedented demand in Nottingham for cough mixtures. This is largely due to the recurrence of influenza, although the outbreak, unlike that of November, is this time of the ordinary catarrhal type, without exceptionally high temperature or pneumonia. There are some hundreds of cases in the city, but so far they have had no perceptible effect on the death-rate.

Sheffield.

Several active workers in pharmacies are indisposed, including the President of the local Society, Mr. Culverhouse.

The ex-Lord Mayor has presented Walkley with a "Reform Club." Mr. J. T. Appleton has been made a trustee.

It is understood that Miss Mildred J. Glaister, chemist and druggist, has purchased the branch business of Mr. Roebrick, Abbeydale Road.

More uniformity in retail prices is badly needed. The impression on the mind of the purchaser is none too good when he pays in one shop 2d. per ounce for glycerin and shortly afterwards is charged 6d. an ounce for it elsewhere. Surely some arrangement could be made.

The lecture by Mr. Herbert Skinner, delivered on February 12 (see p. 65), made a marked impression on the members of the local Society. Mr. Skinner gave a very thoughtful address in a masterly manner—and did not turn out to be the pharmaceutical fire-eater that some had imagined him.

Miscellaneous.

POISON-LICENCE APPLICATION.—Mr. S. W. Gynn, Market Place, Durham, has applied to the Durham City Council for a licence to sell agricultural poisons.

REDUCED WORKING-HOURS.—R. Parkinson & Sons, wholesale druggists, Curzon Street, Burnley, have arranged for shorter hours for their workpeople. The reduction is from fifty-three hours a week to forty-four.

MINISTRY OF RECONSTRUCTION REMOVES.—The Ministry of Reconstruction has been transferred from Queen Anne's Gate Buildings to the Windsor Hotel, Victoria Street, London, S.W. 1. The Trade Organisation Section of the Ministry, however, is not transferred for the present.

ENEMY FIRM TO BE WOUND UP.—Max Merker, Ltd., 59 Charlotte Street, London, W. 1, chemists. *Controller:* H. L. H. Hill, 2 Broad Street Place, Finsbury Circus, London, E.C. 2.

VENEREAL-DISEASES CAMPAIGN.—At a meeting of women teachers in furtherance of the present venereal-diseases campaign, held at Merthyr Tydfil on February 13, the chair was taken by Mrs. Lloyd, wife of Councillor H. M. Lloyd, chemist and druggist, Deputy-Mayor of the borough.

PROTECTION WANTED.—The Packing Case Makers' section of the London Chamber of Commerce is urging upon the Government that there should be a total prohibition of the import of box boards into this country pending a decision by the Government as to their future economic policy.

A ROLL OF HONOUR.—J. G. Ingram & Son, Ltd., London, E. 9, have issued a Roll of Honour containing the names of all members of the staff and works at Hackney Wick who have served in the Great War. The souvenir is in the form of an illuminated booklet, tastefully produced, and records the names of 221 employés, of whom twenty-nine have made the great sacrifice.

GOVERNMENT'S TRADE POLICY.—The London Chamber of Commerce has decided to convene a meeting of merchants, manufacturers, and traders to consider the desirability of representing to the Government the urgent necessity for a declaration of their policy in regard to the encouragement and extension of trade and commerce after the war, in view of the changed economic conditions throughout the world.

INQUEST ON A PHARMACIST.—An inquest was held at Nottingham, on February 14, on the body of Mr. George Ingle, chemist and druggist. Evidence showed that while at business on the afternoon of February 12 he experienced abdominal pains, and, declining to see a doctor there, went home. A medical man was sent for, but death occurred just as he arrived. It was subsequently found that rupture of the aorta had taken place.

NOTIFIABLE DISEASES.—The "London Gazette" of February 14 contains an Order issued by the Local Government Board rendering compulsory the notification of malaria, dysentery, trench fever, acute primary pneumonia or acute influenza pneumonia. The duty is placed on medical officers of health of making such inquiries and taking such steps as are necessary or desirable for investigating the source of infection, for preventing the spread of infection, and for removing conditions favourable to infection. If a medical practitioner is not in attendance on the patient, the medical officer of health is also to take such steps as are necessary or desirable for ascertaining the nature of the case.

VERIFIED CLINICALS.—Dr. S. F. Holloway, Chiswick, writing to the "Daily Mail," states:

Yesterday I was unable to get a clinical thermometer of any sort at five large local chemists, the reason being that for four months wholesale firms had been unable to supply because the Control insisted on a Kew certificate. This takes a very long time (sometimes a year) to get. The pro-war thermometers, without it, were quite good enough for ordinary use, but I believe some very bad ones were issued for the troops in time of pressure. With hundreds of catarrh cases and a recrudescence of influenza, many lives may be lost unless an immediate (temporary) order of release is at once issued.

WINE-LICENCE APPLICATIONS.—Mr. Frank Willmott, chemist and druggist, Radstock, was on February 10 granted a licence to sell medicated and British wines.—At Church (Lancs) Licensing Sessions, on February 13, Mr. W. R. Cameron, chemist and druggist, Union Road, asked for a revision of the condition attached to his wine-licence. The condition was that only medicated wines should be sold. It was stated for the applicant that the formulas for making medicated wines were well known, and many customers desired to make their own. Mr. Cameron therefore asked to be allowed to sell wines provided they were to be used with the other ingredients for making medicated wines, and thus enable customers to save somewhere about 50 per cent. of the cost price of proprietary medicated wines. The application was refused.—At the Birmingham Licensing Sessions, the application of Mr. S. C. Blore, chemist and druggist, for a wine off-licence was refused.

THE HERBALIST AND THE DOXOLOGY.—At an inquest in Kensington, on February 19, on the body of a street musician, Robert Payne, herbalist, Third Avenue, Queen's Park, said he had seen the deceased several times and given him medicine. Upon receiving a note he went and gave him some croton oil on the end of a match and also left some cough-mixture which contained laudanum. The Coroner: "You ought to know that it is most dangerous to give laudanum

to people. You are not qualified, and have no right to sell it." Two medicine-bottles were found in deceased's room, and the Coroner said the second bottle was labelled "Payne's Blessing; blood-mixture for human internal use and for the treatment of cancer, fits, or dropsy." This, said the Coroner, seemed to be a general boon for everything. There was also on the label a verse of a hymn, commencing, "Praise God, from whom all blessings flow." Dr. R. J. Mayberry said that he was unable definitely to state if death had been accelerated by the administration of laudanum or croton oil. He considered it necessary to have a further examination of the body, and the inquest was adjourned for this purpose.

SALE OF FOOD AND DRUGS ACTS.—At the Second Birmingham Police Court, on February 14, Job Hoare, 812 Stratford Road, described as a druggist, was summoned for selling camphorated oil devoid of olive oil and compound liquorice powder devoid of sugar. It was stated for the prosecution that what defendant was asked to supply was war substitutes. It was incumbent upon him to affix a label showing that the articles were prescribed from a war emergency formula, but this he omitted to do. Mr. J. F. Liverseege, Ph.C., the city analyst, said in the one case sesame oil was supplied in place of olive oil, and in the other rice starch had been used in the preparation of the compound liquorice powder. No label had been affixed to show the articles contained ingredients substituted. The Bench imposed a fine of 20s. in each case.—At Lambeth Police Court, London, on February 13, Albert Arthur Phillips, Edmund Street, Camberwell, S.E., was fined 20l., with 2l. 2s. costs, for giving a false warranty in respect to vinegar which was found to be over 27 per cent. deficient in acetic acid.—Dr. Bernard Dyer, in his report to the Leicestershire County Council presented on February 12, states that certain samples of Epsom salts examined by him contained objectionable quantities of arsenic, arising no doubt from impurity in the acid with which they had been prepared. Of three unsatisfactory samples, one contained 25 parts of arsenic per million, as against the British Pharmacopoeia limit of 5 parts per million, while another actually contained 200 parts—forty times the maximum allowance. The other sample contained 30 parts of arsenic per million. Of thirty-eight samples of sweet spirit of nitre, eight were found to be adulterated, and in some instances proceedings were taken.—In the borough of Camberwell, during the past quarter, two samples of olive oil and one of precipitated sulphur were analysed and found to be genuine. One out of fifteen samples of crushed linseed was found to be 6.7 per cent. deficient in oil.

IN THE COURTS.—At Bow Street Police Court, London, on February 17, Herbert Boyce, chemist and druggist, 5 Green Street, Leicester Square, W.C., and Boutalls, Ltd., chemists, his employers at that address, were fined 10l. each, with 5l. 5s. costs each, for irregular sales of morphine tartrate (*C. & D.*, February 8, p. 38).—At the same Court, London, on February 14 and 18, the case in which R. R. de Veuille is charged with the manslaughter of "Billie Carleton" (*C. & D.*, February 15, p. 42) was continued by the hearing of evidence mainly a recapitulation of that given in the Coroner's Court. In addition, Mary Hicks stated at the hearing on February 14 that a Mrs. Loo, now under sentence for an offence disclosed in the progress of the case, had brought to de Veuille's flat six or eight packets "like Seidlitz powders"; and at the subsequent hearing Malvina Longfellow gave evidence as to seeing Miss "Carleton" in possession of "a package about twice the size of a Seidlitz powder," which package the witness took away from her, but eventually gave up unopened. The hearing was again adjourned.—At the same Court, on February 13, the Dairy Supply Co., Ltd., Museum Street, W.C., were fined 10l. for failing to notify with all practicable speed eight cases of parasitic mange in horses.—At Chester, on February 15, George Lea, a professional rat-catcher, was fined 1l., and costs, for the illegal use of strychnine on the Duke of Westminster's Eaton estate. The evidence showed that, in spite of the defendant's guarantee that his method would be harmless to domestic animals, three dogs were found dead. The defence was that warning was given of the intended use of strychnine.—At Newport (Mon.), on February 14, three Chinamen were respectively fined 25l., 10l., and 3l., for offences connected with the sale and smoking of opium. Five Chinamen had originally been charged (*C. & D.*, February 15, p. 42).

Mr. HENRY CHARLES STEPHENS, F.L.S., F.C.S., of Cholderton, Salisbury, and Avenue House, Finchley, London, N., founder of Henry C. Stephens, ink manufacturers, Aldersgate Street, E.C., who died on July 8, left estate of the value of 297,313l. 18s. 7d., of which 179,221l. 1s. 3d. is net personality.

Irish News.

Brevities.

Clinical thermometers are most difficult to obtain in Cork.

Mr. F. T. Smith, J.P., R.D., Antrim, presided at a meeting held in that town to arrange a war memorial to the townsmen who have fallen.

Newry Chamber of Commerce has accorded a hearty vote of thanks to Mr. J. E. Connor, J.P., chemist and druggist, for his services in the Presidential chair during the past twelve months.

Mr. George Shannon, Ph.C., who has lately been acting as manager for Mr. R. S. Chapman, Donegal, has purchased the business of Mr. J. E. Savage, Ph.C., Castlewellan, County Down, who recently died of influenza.

The Sale of Food and Drugs Acts inspector has been paying visits recently to chemist shops in Cork, but apparently all the samples taken have been up to the standard, as no prosecution has taken place up to the present.

Owing to the continuance of the strike no date has yet been fixed for the annual meetings of the various drug-trade organisations in Belfast, but now that the public services have been restored under military protection it is hoped that the dates will speedily be arranged.

Sir William Whitla has resigned his position as senior physician to the Royal Victoria Hospital, Belfast, and has been placed on the consulting staff. He is also about to give up the chair of materia medica at the Belfast University, a professorship which he has held since 1890.

A chemist's assistant, writing in the Cork Press, suggests that, owing to the labour troubles and the recent demand on behalf of the assistants in Cork for an increase of salary and a reduction of hours, a conference of all those engaged in the business should be held in Dublin to discuss the matter.

The whole of the South of Ireland is in the grip of the influenza epidemic, and chemists are experiencing even a more busy time than they did last November. Though there is a vast number of people stricken with the sickness, it is a far milder form than was experienced last year. The medical officers of Cork City have issued to the public a statement of the precautions to be taken to avoid contracting the disease.

Those engaged in the drug trade of Belfast and district who take part in the trade golf match will be glad to hear that a cup for annual competition has been presented by Mr. William McMullan, of Thos. McMullan & Co., Victoria Street, wholesale druggists. The match this year will take place in June, and the honorary secretary, Mr. W. J. Rankin, jun., 11 Waring Street, Belfast, will supply particulars to anyone interested.

Lighting Order Prosecution.

At Cavan Petty Sessions last week an adjourned case came on for hearing in which Mr. J. J. Cole, J.P., Ph.C., was summoned for a breach of the Lighting Order (*C. & D.*, January 18, p. 36). Sergeant M. Dwyer said that on December 19, 1918, at 8.50 p.m., he saw lights burning in the defendant's shop. Mr. Fegan, for the defence, said there was no place but the shop for the assistant to sit in, else he would have to walk up and down the street in the dark to await orders. The assistant was not working, but was waiting there to see if anyone would call; he was using the shop not as a shop but as a waiting-room. According to his instructions the assistant had only one light burning. Mr. Cole said Mr. Davison (the assistant) was only there in case he was called upon; he had only one light burning. The case was dismissed.

Business Changes.

MR. WILLIAM J. LATTY, pharmacist, late of Bristol, has purchased the pharmacy of Tylee & Cooper, 7 Bridge Street, Bath.

MR. P. MILLS, chemist and druggist, has purchased the business of the late Mr. George Scott, chemist and druggist, Liscard.

H. J. WADE & Co. are opening premises as manufacturing chemists and surgical-appliance manufacturers at 37 Railway Road, Blackburn. Mr. H. J. Wade, pharmacist, obtained his early experience in the laboratory of Hodgkinsons, Clarke & Ward, London, and after qualifying joined the staff of Brady & Martin, Newcastle-on-Tyne. For the past ten years Mr. Wade has been managing chemist and representative to T. A. Ward & Co., Ltd., manufacturing chemists, Blackburn. (Corrected notice.)

Scottish News.

Brevities.

Chemists do not much mind having to refuse unprofitable proprietaries. Want of supplies creates a demand for articles with a better margin.

The flax industry has now been re-established on a permanent basis throughout Scotland. Factories for dealing with linseed have been established at Leven, Leslie, and Markinch.

An advertisement in a Glasgow paper reads: "Physic-culto-herbalist guarantees cure for diseases, ill-health, poor development." The advertiser, like the Queen in "Hamlet," would seem to "protest too much."

"The doctor at home," said an old lady to a chemist the other day, "used to say that if folk kent the value o' Gregory's Mixture they'd gie a sixpence for a penny packet. I'm thinkin' he wis a bit o' a prophet!"

"Most chemists," writes a correspondent, "have a pet worry. It may be a hatred of split infinitives, a doctor writing in pencil on light-blue paper, or spelling liniment with a haphazard 'a'; or it may centre round an assistant who insists upon pronouncing envelope as a word of four syllables." Readers can add to the list.

A harassed pharmacist the other evening declined to undertake an unique example of substitution. A young lady brought back a pot of proprietary face-cream. "I think, after all," she said, "you might make me up a shilling's worth of this instead." As "this" included white wax and several other ingredients he decided to allow the original sale to hold good.

"The public exhibit a new spirit of generosity this year," writes a correspondent. "Previously my record was a threepenny piece, which my employer confiscated. Last month, however, an old man slipped and bruised himself; I bathed his wounds. A few days later he called, thanked me again, and insisted that I should accept a pair of socks. The other evening a sick-and-sorry gentleman gruffly demanded a pick-me-up. An hour afterwards he returned, and I faced him bleakly. 'You've shifted my headache,' he said in grateful tones; 'here's a cigarette for your trouble.' And, slapping down a tin of fifty cigarettes on the counter, he stalked out of the shop."

Edinburgh.

The death is announced of Mr. John Falconer King, who was the Edinburgh city analyst for forty years. He was frequently called into consultation in cases of poisoning.

The latest annual report of the Royal Public Dispensary states that during the past year free medicines and appliances have been supplied to 1,791 patients, those attended in their own homes numbering 320.

A meeting was held in Edinburgh on February 13, under the auspices of the National Warehousemen's and General Workers' Union, to consider the conditions of workers in the drug, fruit, and tobacco trades.

The St. Cuthbert's Association will open a branch pharmacy in Morningside Road during March. Premises in Nicolson Street, formerly used as a pharmacy, are to be used by the Association as a boot shop.

At Edinburgh Sheriff Court, on February 14, John Mackenzie Cowe, described as in the employ of an Edinburgh firm of wholesale druggists as traveller and collector of accounts, was sentenced to five months' imprisonment for embezzling the sum of 278s.

A letter headed "Science and Influenza," appearing lately in the local Press, ends as follows: "It would certainly be a reflection on the merits of the British Pharmacopoeia if a question of such vital importance to suffering humanity was unfortunately permitted to drift until perhaps some German professor with his forensic knowledge came forward to the rescue with his magic talisman and effected a radical cure." This kind of sentence is "harder than bezique."

A general meeting of the Edinburgh Chemists' Golf Club was held on February 10, when it was decided to resume the activities of the club. The existing office-bearers were re-elected, and suitable reference was made to the loss the club had suffered during the war in the death of three of its members—two on active service. In view of the forthcoming inter-city match—Edinburgh v. Glasgow—it is hoped that many new members may join. Names should be sent to Mr. G. W. Mangan, 84 Newington Road, the Hon. Secretary.

French News.

(From the "C. & D." Paris Correspondent.)

THE POISON LABEL.—Everyone has heard of the "Gazette des Ardennes," the paper printed and published in French (at Charleville) by the Germans as a means of propaganda among the populations under their rule. The Germans put up posters representing a prison camp, and the inscription, "All French and Belgian prisoners read the 'Gazette des Ardennes.'" To this poster an anonymous humorist stuck a German pharmacy label "Gift," and the subtle joke hugely tickled the local inhabitants.

EXPLOSIVE FERTILISERS.—M. André Piedallu, observing how vigorously wild plants grow on the edges of shell-craters and blown-up trenches, attributes this to the breaking up of the soil and its impregnation by the nitrous products of explosives. He has consequently designed a cartridge filled with explosives innocuous to plant-life and containing a tube of appropriate fertilisers (phosphates, nitrates, potash, etc.), and this he proposes to bury and to explode, planting fruit-trees in the holes thus made.

POISON-GASES USED IN THE WAR.—A Montpellier medical journal reports an interesting lecture given by Dr. Gausorgues on the asphyxiating gases employed in the war. In the course of his remarks he stated that chlorine formed the base of the French as of the German gas, but to provoke coughing (by which the German mask is often detached and its wearer left unprotected) the French added tin tetrachloride. This the Germans were unable to procure, so they substituted carbon oxychloride. Towards the end of the war the gas-shell steadily gained favour among the French, and in the last Flanders battles they were largely used. The Germans used, against the British and French, three kinds of gas-shells, distinguished by a coloured cross. The "green cross" contained hydrocyanic acid; the "blue cross" chlorine, and the "yellow cross" "mustard" gas, also known as "Armentières" gas, the most distressing of all.

M. DANIEL BERTHELOT, Professor of Physical Science at the Paris School of Pharmacy, carried out a series of experiments regarding protection against asphyxiating gases during the winter of 1915-16 (at the Meudon establishment, where his eminent father so long resided) in collaboration with M. Trannoy. A report of the results was read at a recent meeting of the Academy of Sciences, the point being to elucidate the comparative value of soils. White sand absorbs but little chlorine, yellow sand is not much better, but wet vegetable soil absorbs the gas freely.—Professor Lapique, who had been requested to study the possibility of the alimentary utilisation of seaweed, also gave the Academy the result of his researches with one species of *Laminaria*. Plunged into a weak lime-bath and washed for fifteen minutes in running water, an easily-kept substance was produced, of which 40 per cent. could be transformed into glucose. An enormous quantity of inexpensive forage could thus be produced, valuable even in peace-time.

A WAR-YEAR PRIZE-LIST.—The Academy of Medicine's prize-list awards 4,400f. (Saintour Prize) to Dr. Cabanes, pharmacist and editor of the "Chronique Medicale," for his work on "Surgeons and the Wounded from the Earliest Ages to the Red Cross Period." M. Martial Laudat, Doctor in Pharmacy, takes the Vautin-George prize (1,000 francs) for his "Analytic Study of Serum Liquids"; and Pharmacist-Major C. O. Guillaumin the Jules-Lefort prize of 300 francs for his work "In the Field: Thirty Months of Water Analysis." An Army surgeon and pharmacist (MM. Ramond and C. Vergelot) are honourably mentioned for their joint essay on "Microbian Flora of War Sores."—The President of the Academy of Sciences for 1919 is M. Léon Guignard, the eminent botanist; sometime Director and still Professor of the Paris School of Pharmacy. At the Academy's annual distribution of prizes for scientific work, the "laureates" included a certain number of his colleagues. M. Paul Lebeau, awarded the La Caze Prize (10,000 francs) for his work in connection with Inorganic Chemistry, occupies the chair of Chemical Pharmacy at the Paris School. M. Bruntz, Director of the Nancy School, shares with M. Jaloux (Doctor in pharmacy) the Barbier Prize for their work on Medicine Plants. M. Raphael Dubois, who took the La Caze Physiology Prize (10,000 francs), began life as a pharmacist, though he is now a professor at the Lyons Faculty of Sciences. An Army surgeon and military pharmacist (MM. Guillemart and A. Labat) share a "Montyon Prize" for their work on protection against asphyxiating gases. The 10,000 francs Jecker Prize goes to M. Robert Lespiaud for his researches in organic chemistry; while M. Marcel Guichard takes the Houzeau Prize (700 francs) for his study of molybden compounds.

Belgian-News.

(From our Belgian Correspondent.)

ANTIQUITIES.—The collection of pharmaceutical pottery and mortars of M. Comein and that of M. Van Schoor have, happily, not been injured by war events. (A photograph of one side of M. Comein's office, showing part of his large collection of pharmacy-pots, appeared in the *C. & D.*, I, 1900, p. 164.)

THE SOCIÉTÉ DE PHARMACIE D'ANVERS, the oldest of the Belgian professional pharmaceutical societies, will after a short time become a trade union. The last meeting of this ancient body was the occasion of a lecture on war poetry by Mr. Arthur Gilon (Antwerp). A good many military pharmacists were present.

A CHEMIST PRISONER.—One of the Antwerp chemists, M. C. Gillis, is still a prisoner, having been a member of the Flemish provincial Council. During the bombardment, German shrapnel very nearly destroyed his pharmacy.

THE PHENIX PHARMACY.—M. Bollansée, whose pharmacy and laboratory of galenicals were entirely destroyed during the bombardment, remained in Antwerp, and a few weeks after the destroying of his possessions fitted out a war pharmacy a few yards from the ruins of his burnt *officine*. Meantime, he began the erection of a new pharmacy designed in the Flemish style. Photographs of Mr. Bollansée's destroyed house and laboratories were given in the *C. & D.* shortly after the bombardment (*C. & D.*, II, 1914, p. 713). The accompanying photograph represents the new front wall and the commemorating white stone with the sign of the Phoenix, the name of the reconstructed pharmacy. The following distich for remembering the misfortune and renewal is carved in the stone (in Flemish):

"By the fire of war destroyed and lost to the earth,
But as the Phoenix from its own ashes born again."

The interior, planned in modern style with mahogany and glass fittings, looks very handsome. The following Latin distich, commemorating the destruction and the renovation, is to be painted round the ceiling:

"Igne beLLI beLgo-gerManI Usta aC totaLter De-strUCta (1914).

"hoDie, More phoenICIa CI nere re nasCens, renoVatUr offICI na (1916)."

Both these distiches were composed by M. Oscar Van Schoor, Secretary of the Antwerp Société de Pharmacie. The latter distich was to have been carved on the front, but the German military authorities would not allow it to be cut in the stone.

EARLY CLOSING.—During the war the pharmacies were closed at 8 P.M. Some pharmacists close their business at seven. The system of earlier closing is being taken up by the Belgian pharmacists generally; they have now the experience that outside the business there is another life, and they got a more practical idea of the use of life. Before the war drug-stores in large cities closed at 10-11 P.M. Some—but not yet many—pharmacists close also from noon to 1 P.M.

PHARMACEUTICAL ALCOHOL.—The Nationale Pharmaceutique, the federation of all the Belgian pharmaceutical unions, has obtained from the Government the monopoly of alcohol for pharmaceutical purposes. Alcohol for pharmacists will cost 10fr. per litre. The same price will be charged for denatured alcohol for perfumers; industrial denatured

spirit will be supplied at a lower rate. Pharmacists are compelled to record even the smallest quantity of spirit dispensed in prescriptions or sold in the pharmacy.

THE "JOURNAL DE PHARMACIE D'ANVERS."—This veteran of the pharmaceutical Press of Belgium, which appeared during seventy-five years, has ceased publication, and, like the other pharmaceutical papers, is followed by the new weekly review, "Journal de Pharmacie de Belgique," which concentrates the whole scientific and professional activity of Belgian pharmacy. Its first number was published at Brussels on January 4. During the war the publishing of all the Belgian pharmaceutical papers ceased, as no one responsible would submit himself to the censure of the Huns.

PHARMACEUTICAL REVIVAL IN ANTWERP.—During the war several Antwerp chemists have been living in foreign countries. Most of them have lately returned, and are now taking up again the direction of their business—for instance, M. Cuvelier, who was in Holland; M. Bockstyns, who was in England; Dr. Buelens, pharmacist and analytical chemist, whose dispensary was burnt and destroyed during the bombardment of Antwerp. Dr. Buelens left his city and remained in England until a fortnight ago; he found there employment in chemical works. He has now returned to Antwerp with the intention of establishing a new drug-store. M. De Beul, jun., still remains in England. M. Compeeren's pharmacy is closed since the bombardment; he also is in England. M. Versluisen, of Borgerhout, came back from Holland; his pharmacy was closed during the whole of the war; now he rejects the Sunday-closing system adopted by all the Antwerp pharmacists.

Netherlands Notes.

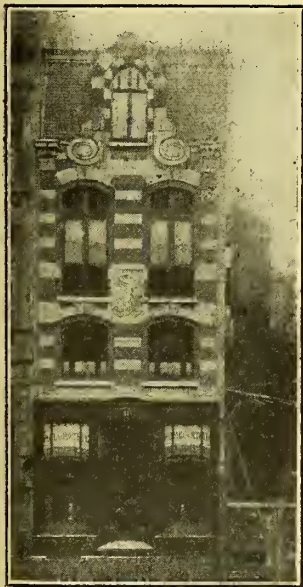
(From the "C. & D." Correspondent.)

PUBLIC HEALTH SERVICE.—The reorganisation of the Public Health Service is in preparation in Holland. The Central Council for Public Health will be changed into a bureau for advice, and will be established at The Hague instead of at Utrecht.

PROFESSOR A. F. HOLLEMAN on October 21, 1913, completed twenty-five years as professor of chemistry at the Amsterdam University. Professor Holleman has obtained a world's reputation by his works on inorganic and organic chemistry, which have been translated into all European languages. His scientific researches have nearly all been on subjects of organic chemistry. Professor Holleman is corresponding member of the British Association, doctor *honoris causa* of St. Andrews University, and honorary member of the Sociedad española física y química in Madrid.

CULTIVATION OF MEDICINAL PLANTS.—By a Royal Decree the Minister of the Home Department is authorised to prohibit or limit the cultivation of certain plants (for instance, caraway-seed, aniseed, linseed, and medicinal drugs) if he judges that the cultivation of other plants is more important for public welfare. The Dutch Society for the Cultivation of Medicinal Drugs (Nederlandsche Vereeniging von Geneeskruidtuinen) objects that the Decree will endanger the supply of home-grown drugs. It is also difficult to understand why linseed should be mentioned among the inferior plants.

DUTCH PHARMACOPOEIA.—The third supplement to the fourth edition of the Dutch Pharmacopoeia has just appeared, and became valid on January 1. It only contains some war prescriptions of a temporary nature, which the Committee charged with the revision of the Pharmacopoeia has thought necessary on account of the scarcity of fixed oils and fats. At the time the preface to the supplement was written (June 1913) this was a matter of the utmost importance, and it may be asked why the matter was allowed to remain for six months before these formulas were put into force. At present it is no longer a matter of great necessity. The first article mentioned in this supplement is crude oleic acid—that is, oleic acid that has been separated from solid fatty acids at a temperature of 9° C. This crude oleic acid is the base for the war formulas for emplastrum oxidi plumbici, saponum, and spiritus saponatus, where formerly olive oil, sesame oil, and lard were ordered. The other items in the new supplement are: Unguentum glycerini and unguentum glycerini cum sulfure. The Committee states in the preface that the supplement will be in force as long as the supply of the ordinary fats and fixed oils can be met only with difficulties.



THE PHENIX PHARMACY.

Interrupted Apprenticeships.

THE Training Department of the Ministry of Labour has issued a memorandum describing the Government scheme for helping apprentices whose term of training has been interrupted by the war. Apprentices who enlisted at eighteen have lost periods of training which often amount to three years, and occasionally to more. Except where they have been employed in technical units, they will return to industry with no greater skill and knowledge than when they enlisted; and many of them will have forgotten much of what they had learnt. But they will return with the needs of men, often of married men. If, therefore, they are to complete their training, they will require, while doing so, first, a man's wage and not a boy's, and secondly, one equal or nearly equal to what they could obtain on unskilled or semi-skilled work. On the other hand, such wages will be more than the employer can afford. In technical skill his apprentices will at best be in the position of youths of eighteen or nineteen.

The scheme is limited to those who before enlistment were apprentices in a skilled trade, and covers women as well as men. The number of women affected, however, should be very small. The apprentice must have been under the age of twenty-one (in Scotland twenty-three) at the time of enlistment. The term "apprentice" is used in a broad sense, and is not limited to those serving under an indenture or other written agreement. The test is rather that a person before enlistment was actually learning a skilled trade.

Training in a trade will be given under a definite scheme for each trade prepared by a body representative of employers and workmen in the trade and approved by the Minister of Labour. No State grant will be paid unless there is such a scheme, nor to any employer except in accordance with its conditions. It is proposed to use both the workshop and the technical institution in giving training.

In every trade apprentices over twenty-one (in Scotland twenty-three) are to receive from all sources not less than certain fixed proportions of the journeyman's wage in the trade and district. This proportion will be three-quarters of the standard rate *plus* war bonus (if any) for the first year of such training, and five-sixths for the remainder of it.

No State "allowance" will be paid in respect of any apprentice until the termination of his original apprenticeship, or until he reaches the age of twenty-one (in Scotland twenty-three) where the apprenticeship continues beyond these ages. No apprentice who was in his last year of service when he enlisted will be eligible for grant in respect of training in an employer's establishment unless, for special reasons, the Minister of Labour otherwise determines.

The following allowances may be paid by the State, subject to the conditions outlined below:

(1) A "wage allowance" to apprentices receiving training in the workshop, at the rate of one-sixth of the standard journeyman's rate, including war bonus (if any), throughout the period of training. This allowance is payable for a maximum of 104 weeks.

(2) A "maintenance allowance" to apprentices receiving training in a technical institution or training centre. Where whole-time training is given, the allowance will be at the same rate as that payable to disabled men undergoing training for a trade. Where the apprentice receives part-time training, the allowance shall be in proportion to the number of hours spent in such training. The full-time maintenance allowance shall not be paid for more than forty weeks, and the part-time for more than an equivalent of forty weeks' whole-time training.

(3) A "fees allowance" to cover fees paid by an apprentice receiving technical training, the amount payable to be determined by the Minister of Labour.

To those returning under twenty-one (in Scotland twenty-three) and having part of their original apprenticeship still to serve, the employer is to pay the current district rate of wages for other apprentices of the same age, until they reach the age or the termination of their apprenticeship, whichever comes first. The wages payable to other apprentices shall be those laid down in the scheme applicable to the particular trade. But in every case the wage shall be not less than seven-twelfths of the standard journeyman's rate *plus* war bonus for the district during the first year of training and eight-twelfths for the last year.

No grant shall be paid (1) unless the period of training lost by service in the Forces is reduced by at least one-third; (2) unless the period is correspondingly reduced when the apprentice, while with the Forces, has worked at his trade in a technical unit; and (3) unless the employer and apprentice enter into an agreement to complete the training in accordance with the scheme laid down for their trade.

Where a National Joint Industrial Council or Interim Industrial Reconstruction Committee exists, it will draw up a scheme for its trade or industry. Failing this, the task will be committed to any other body which in the opinion of the Minister is sufficiently representative of employers and workmen in the trade. Where no such body exists, the Minister himself may prepare a scheme. All schemes are subject to the approval of the Minister of Labour, and, in respect of provision for technical training, of the Board of Education.

Legal Report.

Damage by Sheep-dip.—Before Mr. Justice Kenny and a special jury of the City of Dublin, the trial took place at Dublin on February 13 of the action in which Mr. Francis Corrigan, a farmer residing at the Curragh, co. Kildare, claimed damages from the Kildare County Council for the loss of a number of sheep owing to the alleged negligence of the defendants' servants. Plaintiff's case was that he had his sheep dipped at the County Council's dipping-bath at Ballymany, and that upwards of fifty-seven of them were poisoned and died, having absorbed arsenic into the skin. The defendants pleaded that the dip used was one approved of by the Department of Agriculture in Ireland in its list of approved dips, and they denied negligence. The jury found that the defendants were guilty of negligence in not taking proper precautions to see that the dip used was suitable for the Ballymany bath, and they awarded the plaintiff 197l. 10s. On the application of defendants' counsel a stay of execution was granted. It transpired that the dip used was known as Gorry's dip, and was supplied by a Naas merchant.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

PERMANOL, LTD. (P.C.).—Capital 1,000l. Objects: To carry on business as manufacturers of and dealers in hair preparations and restoratives, hairdressers, chemists, druggists, etc. Solicitor: F. S. Clark, Bush Lane House, London, E.C.

H. BATTY & Co., LTD. (P.C.).—Capital 5,000l. Objects: To carry on business as manufacturers of and dealers in chemicals, creams, pomades, lotions, embrocations, perfumes, toilet preparations, surgical instruments, and chemists' sundries, etc. R.O., 92 Cannon Street, London, E.C.

GALE CO., LTD. (P.C.).—Capital 3,000l. Objects: To take over the business carried on at 133 Hammernsmith Road, London, W., as the "Gale Artificial Limb Co."; also to carry on the business of orthopaedic and surgical appliance, boot, corset, and crutch manufacturers, chemists, druggists, etc.

JOINT-STOCK COMPANIES.—Notice is given in the "London Gazette" that the names of the under-mentioned companies have been struck off the Register and the companies dissolved: Harvey Electro Chemical Co., Ltd.; J. E. Butler (Chemists), Ltd.; J. H. Smith & Co. (Chemists), Ltd.; Spelmont Chemicals, Ltd.; Zalo Foods, Ltd.

INTERNATIONAL SPONGE IMPORTERS, LTD.—The annual report for the year ended December 31, 1918, states that the net profit amounts to 17,944l. 12s. 2d., to which is added balance from last account 644l. 9s., making a total of 18,589l. 1s. 2d. This is to be appropriated as follows: Amount of preference share dividend for the year, 7,500l.; interim dividend of 2 per cent. paid upon the ordinary shares, August 7, 1918, 3,128l. 15s. 2d.; general reserve, 952l. 5s. 5d.; income-tax reserve, 251l. 17s. 7d.; proposed final dividend at 3l. per cent. upon 156,438 ordinary shares of 1l. each, 4,693l. 2s. 9d., leaving balance to be carried forward, subject to excess profits duty of 2,663l. 0s. 3d. An interim dividend of 2l. per cent. was paid upon the ordinary shares on August 7, 1918. The directors now recommend that a further dividend of 3l. per cent. be paid, making a total distribution for the year of 5l. per cent. upon the ordinary share. The directors have thought it necessary to strengthen the board by electing three new members, and the shareholders will accordingly be asked to confirm the appointments of Mr. Ernest Cresswell, Major G. S. Marks, and Mr. Stanley Cohen as directors.

Sheffield Pharmaceutical and Chemical Society.

Its Origin and Growth.

At the recent celebration of the jubilee of the Sheffield Pharmaceutical and Chemical Society, Mr. John Austen, Ph.C., who has well earned the title of "the historian of the Sheffield drug-trade," gave the following account of the origin and growth of the Society:

As far back as in 1841, a local branch of the Pharmaceutical Society of Great Britain was in existence in Sheffield. At the outset there were thirteen members of this branch, all of whom had during the early part of the year assisted in the foundation of the parent Society in London; these were afterwards numbered among the founders of the Society. This little band met together once a month over the shop of Mr. Fred Machin, chemist, in King Street. Mr. Machin was the first Chairman, and Mr. W. V. Radley acted as Secretary. It is said that the discussions at these meetings were of a highly scientific character, and were for the most part based on various articles appearing in the early numbers of the "Pharmaceutical Journal." During the following year six other chemists joined the Society, and twenty assistants were enrolled as associates. The meetings for discussion were few and far between, and in course of time were discontinued altogether.

In 1864 a new Society sprang up in England, known as "The United Society of Chemists and Druggists"; it was based on the principle of co-operation. A branch was formed in Sheffield in the same year, about eighty local chemists and druggists becoming members. Meanwhile the actual local members of the Pharmaceutical Society of Great Britain dwindled to ten in number. The existence of the United Society terminated on the passing of the Pharmacy Act of 1868; it is worthy of note that a Sheffield chemist, Mr. E. P. Hornby, was the last President.

Almost immediately on the passing of the 1868 Act the whole of the chemists of Sheffield were called together, and the Sheffield Pharmaceutical and Chemical Society was formed. The first general meeting was held on January 21, 1869. Mr. John Hill was elected President; Messrs. J. T. Dobb and Edward Wilson, Vice-Presidents; Mr. W. V. Radley, Treasurer; and Messrs. G. Harrison and R. O. Huddleston, Secretaries. Mr. Hill was a highly respected chemist, carrying on business at the corner of West Street and Eldon Street. He was a man of unbounded energy and perseverance, and a very early riser—he would often be at business by six o'clock in the morning. He was in business forty years, and died at the age of seventy in 1881.

At the first meeting of the new Society thirty-two chemists gave in their names as members: only two of these are now living—Mr. Preston, who is still actively engaged in business, and Mr. R. W. Watson, who lives in retirement in the South of England. At a subsequent meeting, Mr. J. P. Hewitt, Mr. H. E. Ibbitt, and Mr. Thomas Mayor, all of whom are still living, were elected. The first year of the Society was a busy one: twenty-eight meetings were held, and fifty-four members and forty-one associates were enrolled. A reading-room was opened, a museum was formed, and, in addition, a course of lectures was inaugurated, the first lecturers being: Mr. G. Harrison, Chemistry; Mr. Job Preston, Pharmacv; Mr. R. Gowland, Materia Medica; Mr. Ed. Birks, Botany. Contributions of money, specimens, and books were asked and received; in this way during the first twelve months the Society collected 146*l.* 12*s.* 6*d.*, the disbursements being 105*l.* The objects of the Society were expressed in the following terms:

The objects of this Society shall be the promotion of goodwill and general trade interests; the reading of papers, and discussion on various subjects connected with pharmacy and collateral sciences; the training and professional education of those who are now required by law to pass the examination of the Pharmaceutical Society; and the proper upholding of the Pharmacy Act in this district.

The first dinner of the Society was held in 1870. In proposing the toast of the medical profession, Mr. Hill remarked that he had had conversations with some of the most eminent medical men in the town, and he found that they would be perfectly willing to allow their prescriptions to be made up by druggists, but that at present they were not sufficiently satisfied with the educational status of the whole of the body to trust their prescriptions in their hands. It is worthy of note that a case of champagne was offered as a gift to this dinner by a Mr. Scholes, but was declined with thanks.

During these early years monthly lectures and papers were given before the Society by Sheffield doctors and chemists, including Mr. A. H. Allen, F.I.C., Mr. Wm. Baker, F.C.S.,

and Mr. J. T. Miller. Mr. Miller was a chemist of a very high order. In his methods of work he resembled the great Senele, who also found time to attend to a pharmacy in order to provide the wherewithal to carry out his scientific investigations. He commenced as a chemist and druggist in 1846 in Gibraltar Street, where he spent forty years of his life. Mr. Miller was passionately fond of analytical chemistry. He also conducted metallurgical analyses for several of the Sheffield steelworks, and the very night before his last seizure he was analysing several samples of glucose for a local brewer. He was the author of several standard tests—that for methylated spirit being perhaps the best known. In his personal habits Mr. Miller was somewhat eccentric; he was never seen in the pharmacy or laboratory without his tall silk hat and a white apron. Indeed, his housekeeper was heard to remark that she had never seen him without this top hat on—he came down with it in the morning and went to bed with it on at night.

By 1874 the membership of the Society had fallen to twenty-eight, while the associates numbered twenty. A Quarterly Council Supper was commenced in this year. In 1875 a resolution was carried adopting a uniform scale of dispensing charges in Sheffield, a cipher mark being accordingly used on prescriptions. It was in this year that patent medicines were first cut in price by a firm of local grocers; the matter was taken up strongly by the local Society, but without satisfactory result. The Society commenced a buying section, and the names of the patents to be purchased were printed monthly.

In 1877 a great and successful fight took place to guard the ancient right and privilege of chemists to prescribe for simple ailments. The Sheffield Society was very much to the fore in this work. Mr. Radley contending that members of the trade ought to be at liberty to attend to little ailments over the counter. Mr. Radley was a member of the Council of the Pharmaceutical Society of Great Britain for several years. The Sheffield Society owes a great deal to his memory; for by his patient and persistent efforts he promoted a kindly feeling and interest in pharmaceutical affairs. In the same year the rooms of the Society were given up and the furniture sold. Mr. Newsholme, who took over Mr. Radley's business, became the Secretary in 1880; and after five years of strenuous toil the Society was again brought into a healthy state. In 1885, before relinquishing the Secretarial duties for the Presidential chair, Mr. Newsholme had the satisfaction of seeing a School of Pharmacy established on a firm basis and on strictly educational lines. The Council was fortunate in securing the services of first-rate men to conduct the classes; among them may be mentioned G. A. Grierson, F.C.S., John Humphrey, Ph.C., C. O. Morrison, Ph.C., S. T. Rhoden, and J. H. Worrall, F.I.C., F.C.S. In 1887 Mr. Newsholme was elected to the Council at Bloomsbury Square, retiring in 1913. He was the first provincial chemist to occupy the Presidential chair.

The Society has twice invited the British Pharmaceutical Conference to Sheffield—in 1879 and 1904. Both meetings were highly successful. For these and other triumphs it owes very much to its Hon. Secretaries, who for the most part have been men of exceptional ability. Special mention must be made of such past Secretaries as C. O. Morrison, J. F. Eardley, G. Squire, J. B. Pater, H. Antcliffe, H. G. Williams, Gilbert Jackson, S. Furnival, and E. Preston; and last, but not least, must be added the worthy present Secretary, H. Bown.

It is good sometimes to dip into the past. Man, it is said, is heir to all the ages; and there is no doubt that every one of us at birth enters into a legacy.

Bankruptcy Report.

Re Robert William Tildesley, formerly of Gorton, Manchester and Rotherham, chemist and druggist, applied at the Sheffield Bankruptcy Court, on February 14, for his discharge. The liabilities ranking for dividend were 1,034*l.* 14*s.* 4*d.*. A first and final dividend of 1*s.* 11½*d.* had been paid, but in order to do that the debtor had borrowed from relatives. Whilst he was in an insolvent condition (reported the Official Receiver) debtor opened a shop in Rotherham. The debtor, in reply to the Official Receiver, said he joined the Army in September last; he had attested in 1915, and was discharged on February 1. Before joining the Army he had been working as assistant manager of one of Messrs. Boots' branches at 3*l.* 15*s.* per week and commission. He expected to get a similar position now. The discharge was granted on the debtor undertaking to pay 10% by monthly instalments of 2*l.* 10*s.*

Pharmaceutical Society of Ireland.

Council-meeting.

THE monthly meeting of the Council was held on February 11 at 67 Lower Mount Street, Dublin, Mr. James Michie, President, in the chair. The following members of the Council were also present: Dr. J. A. Walsh, Dr. A. J. Barnes, Messrs. G. D. Beggs, J.P. (Hon. Treasurer), W. F. Wells, James Tate, A. Owen Wells, Charles E. Digges, Wm. J. Hardy, H. Lancashire, J.P., G. A. McLean Lee, John Smith, and D. M. Watson.

DEATH OF PRINCE JOHN.

The Registrar (Mr. A. T. Ferrall) read the following telegram from the King's Private Secretary in response to a message of condolence from the President of the Society on the death of H.R.H. Prince John:

The President, Pharmaceutical Society of Ireland, Dublin,—I am commanded to thank you for the sympathy you have expressed with the King and Queen on behalf of the Pharmaceutical Society of Ireland, whose message is greatly appreciated by their Majesties.

CO-OPTION OF A MEMBER.

MR. LANCASHIRE proposed the co-option of Mr. Samuel Suffern, R.D., Belfast, as a member of the Council to fill the vacancy caused by the death of Sir William James Baxter. He said there was a feeling of dissatisfaction amongst chemists and druggists and registered druggists with their representation on the Council; and if the Council showed their sympathy with this feeling by adopting his proposal the fact would be much appreciated. At the recent election three members of the bodies to which he referred were candidates, and one who belonged to Dublin was returned. Of the other two, one was a new candidate and the other was an old member of the Council. He had before him a paper issued by the Chemists' and Druggists' Society, and he saw by it that they placed Mr. Samuel Suffern first on their list. The taking of that fact into consideration by the Council would be the means of increasing largely the membership of the Pharmaceutical Society.

MR. BEGGS said that, while thoroughly agreeing that they ought to give the registered druggists better representation on the Council than they had at present, he proposed the co-option of their old and tried friend Mr. William Doig. He thought nobody present could have any objection to Mr. Doig's conduct during his membership of the Council. He had done good service for them, and he (Mr. Beggs) was sure that if he was co-opted now he would be a good member, and would satisfy the chemists and druggists throughout the country. He was highly respected as a member of the Chemists' and Druggists' Society, and the fact that his name had been placed second on the list should not militate against him.

DR. BARNES seconded the motion for the co-option of Mr. Doig.

MR. HARDY said he sympathised with what had been said by Mr. Lancashire. He had not been approached by anybody to support either the candidature of Mr. Doig or that of Mr. Suffern; but he had learned during the last election that Mr. Suffern was really the man the Chemists' and Druggists' Society looked upon as their representative candidate. Formerly, when they had only eighteen or twenty associate druggists, they had two representatives of the druggists on the Council. Now they had only one druggist; and, as he understood from the result of the last election, the Chemists' and Druggists' Society did not recognise him, and did not regard him as a representative of theirs in the Council. He was elected by the Dublin Drug Trade Association.

DR. BARNES said he wished to correct Mr. Hardy. The Dublin Retail Drug Association did not send any candidate forward to that Council. It was just a coincidence that Mr. Middleton, who was elected, was also Hon. Treasurer of the Dublin Retail Drug Association.

MR. HARDY: I am quite willing to accept that explanation. But I cannot help thinking that when the election was going on the official Secretary of the Association associated his name with the official circular that he sent out.

MR. W. F. WELLS said he was sure that Dr. Barnes was correct that the Retail Drug Association did not officially put anybody forward. But their Vice-President at the time sent out a circular in which he referred to Mr. Middleton as the representative of the Association in Dublin. There was one point in connection with the present proposal that should be clearly understood. It had always been the custom that when a pharmaceutical chemist retired from the Council

or died, the vacancy should be filled by the co-option of a pharmaceutical chemist; and similarly that when a druggist retired or died the vacancy thus caused should be filled by the co-option of a druggist. If they passed the resolution proposed by Mr. Beggs, as he hoped they would, it should be done without prejudice as regards future co-options. This was a Northern vacancy, and he therefore thought that the Northern members should have more to say to the election than the Southern members in the matter of co-opting a druggist if they wished to do so. But he would remind them that if Mr. Suffern was first on the official list, Mr. Doig was placed on the list before him by the electors; and he believed that Mr. Doig would have been elected to the Council were it not that some in Belfast had voted against him. Some of them voted for Mr. Suffern, thus splitting their votes and failing to return their man. Mr. Doig was a very open and fair-minded man, and he would like to see him back again at the Council. He did not say anything against Mr. Suffern. But the fact that the voters had placed Mr. Doig first should, he thought, weigh with them. It had been frequently stated that the druggists had not a fair representation on the Council. He did not think that was the fact, because prior to the last election they had two representatives, which gave them a fair representation considering the relative numbers of pharmaceutical chemists and of druggists in the Society. He suggested that Mr. Doig be unanimously co-opted.

MR. TATE said that Mr. Doig and Mr. Suffern were long and well known to him. Both were honourable and worthy men. Their old friend, Mr. Doig, represented the druggists on the Council for a considerable number of years. But they held that he was not exactly in touch with them. That did not exactly create a bad member. He believed that Mr. Doig was exceedingly conscientious in all his actions. (Hear, hear.) He was very frank in stating what he thought, and they never got into any difficulties with him at the Council. It had been stated that they were acting against precedent in co-opting a druggist to fill a vacancy caused by the death of a pharmaceutical chemist. While they in Belfast agreed that this should be done on the present occasion, he agreed with Mr. Wells that their action should not be taken as a precedent for breaking a precedent. A great number of members had been added to the Society during last year, and he understood that a great many more would be added in the near future. As between Mr. Doig and Mr. Suffern, his difficulty was that he could not please both. But he must honestly take up the position that he who was nearer election on the last occasion should now be co-opted.

MR. LANCASHIRE said he was not quite clear whether he had made it distinctly understood that he had not been approached as regards either Mr. Doig or Mr. Suffern. He had no interest in either gentleman. His whole aim was to help the Society, as he knew there was a feeling, right or wrong, that the druggists were ignored, and that they were not receiving the sympathy to which they were entitled. The old order of things was passing away; the war had changed everything; and it was for them as a Society and an intelligent body of men to see that they would not be behind other Associations in their land.

MR. WATSON pointed out that Mr. Lancashire's proposal had not been seconded, so that really there was only one proposition before the Council.

THE PRESIDENT said as there was nobody to second Mr. Lancashire's proposal the only name before the meeting was that of Mr. Wm. Doig. He himself would personally be in favour of co-opting a pharmaceutical chemist; but as this was a Northern vacancy he quite understood that they should accede to the wishes of their Northern friends who were present at the meeting. What was done on the present occasion should not be taken as a precedent in the future. As regards Mr. Doig and Mr. Suffern, Mr. Doig was considerably above Mr. Suffern in the result of the vote. That to his mind meant that the pamphlet sent out by the local Association in the North did not represent the views of the members of the Society; and the opinion of the local Association was second to that of the members of the Society generally. On the ground alone that Mr. Doig received considerably more votes than Mr. Suffern, he thought Mr. Doig's position was superior.

MR. DOIG was then co-opted without dissent.

CHANGE OF ADDRESS.

MR. T. CONNOLLY, Ph.C., wrote notifying change of address to the Medical Hall, Hackestown, co. Carlow.

PRELIMINARY REGISTRATION.

The following, who submitted certificates of other bodies, were admitted to Preliminary registration:

Miss Mary Bridget Gildea, Milltown House, Donegal; Mr. Martin Flyn, 12 West Street, Drogheda; Mr. Bartholomew Healy, 75 North Main Street, Youghal; Mr. Owen Lynch, 24

Roohe's Row, Queenstown; Mr. John McKenna, 82 High Street, Holywood, Co. Down; Mr. Patrick Francis Ryan, Post Office, Croom, Co. Limerick; and Mr. Walter J. Webb, 20 Richmond Street, Limerick.

THE LATE SIR WM. JAMES BAXTER.

The REGISTRAR read the following letter from Lady Baxter in response to the vote of condolence on the death of her husband passed by the Council:

Dear Mr. Ferrall.—Will you please convey to the President and members of the Council on behalf of my daughters and myself, our heartfelt thanks for their appreciative reference to Sir William, and their very kind message of sympathy with us in our crushing sorrow. The heavy blow which has fallen with such startling suddenness on our hearts and home is made easier to bear by the knowledge that our own sweet memories are shared by those whose friendship he highly valued. Sir William looked back with pride and pleasure to the time when he had the honour of presiding over your meetings, and he often spoke of his happy association with the Council and of the genial friendship ever extended to him by its members.

RE-EXAMINATION FEES.

The REGISTRAR read a letter from the Clerk of the Council, Dublin Castle, stating:

I am directed by the Lord Lieutenant to inform you that a Committee of the Privy Council have recommended that the resolution of the Council of the Pharmaceutical Society of Ireland proposing to increase the re-examination fee in the case of the Preliminary examination from half a guinea to a guinea was approved, subject to the resolution being re-drafted in proper form. I am, therefore, to request that you will bring the matter before the Council with a view to their passing a fresh resolution, omitting the references to the Calendar for 1918 and the date on which the resolution is to take effect, and setting forth the proposal in explicit terms in the form of a Regulation.

A letter in similar terms was received in reference to the proposal to increase the re-examination fee in the case of the examination for the qualification of assistants to pharmaceutical chemists.

On the motion of Dr. BARNES, seconded by Mr. HARDY, the following resolution was passed:

That Preliminary Examination Regulation III. be rescinded and the following substituted therefor:—

"The fees for the examination of each candidate shall be five shillings and threepence to each examiner. The fee to be paid by each candidate shall be two guineas. A rejected candidate may present himself for examination after a lapse of six months on paying the re-examination fee of one guinea."

On the motion of Dr. BARNES, seconded by Mr. WALSH, the following resolution was passed:

That Regulation III. for the qualification of Assistants to Pharmaceutical Chemists be rescinded and the following substituted therefor:—

"The fee to be paid by each candidate in making application for examination shall be one guinea, which includes examination and registration fees. A rejected candidate may present himself for re-examination after a lapse of six months on paying the fee of one guinea."

DISPENSERS IN THE ARMY.

The REGISTRAR read a letter from the Department of the Director-General, Army Medical Service, stating that "the fact that chemists and druggists in Ireland are not legally qualified to dispense medicines was not lost sight of when Army Council Instruction No. 8 was prepared. It will be observed that such men are only regarded as dispensers, and it is intended to use them under the supervision of a pharmacist."

The letter was referred to the Law Committee.

SEALING OF PHARMACEUTICAL LICENCES.

The Pharmaceutical Licences of the following were sealed: J. J. Mackey, M. Price, C. F. Kirwan, R. M. Thom, P. J. Quinn, D. Eppel, M. Harris, and C. H. Williams.

APPOINTMENT OF EXAMINERS.

The REGISTRAR submitted a letter from Mr. R. Stafford Conyngham, M.A., M.P.S.I., thanking the Council for the kindness and consideration which have been shown to him during his term as examiner.

Dr. E. Harnett Murphy, B.A., M.B., was appointed an examiner for the Preliminary examination in the room of Mr. Conyngham.

Mr. David Warwick, M.P.S.I., was re-elected an examiner for the Practical Pharmacy Division of the Pharmaceutical Licence examination.

CERTIFICATE OF DEATH.

The REGISTRAR submitted a certificate of the death of Dr. John Aloysius McQuillan, Ph.C., late of Dundalk.

REPORTS OF EXAMINERS.

The REGISTRAR submitted reports from the examiners, from which it appeared that twenty-four candidates presented themselves for the Preliminary examination, of whom twelve passed, two with honours; that fourteen presented them-

selves for the Pharmaceutical Licence examination, of whom eight passed; and that two presented themselves for the Registered Druggist examination, of whom one passed.

Reports from the Law Committee and the House Committee were received and adopted.

ELECTED AS MEMBERS.

The following were elected as members:

Mr. J. Dargan, Ph.C., Dargan's Pharmacy, Main Street, Cashel, Co. Tipperary; Mr. P. Kearney, Ph.C., The Medical Hall, Cappoquin, Co. Waterford; Mr. E. Kelly, Ph.C., 499 Tyrone Crescent, Falls Road, Belfast; Mr. P. B. Kelly, Ph.C., on active service in Germany; Mr. J. V. McKeever, Ph.C., Plasnewydd, Killiney, Co. Dublin; Mr. John O'Connor, Ph.C., Main Street, Cahireiveen, Co. Kerry; and Mr. J. R. Guiler, Ph.C., 84 West Street, Drogheda.

NOMINATIONS.

The following were nominated for membership:

Mr. Edward Byrne, Ph.C., Coalisland, Co. Tyrone; Mr. Thos. J. Carroll, Ph.C., The Medical Hall, Kilmallock, Co. Limerick; Mr. John E. Devitt, Ph.C., 1 Marsden Gardens, Cavehill Road, Belfast; Mr. M. Dore, Ph.C., Bridge Street, Newcastle West, Co. Limerick; Mr. Andrew R. French, Ph.C., North Street, New Ross, Co. Wexford; Mr. Chancellor Gibson, Ph.C., 336 Ravenhill Road, Belfast; Mr. Thos. Gleeson, Ph.C., The Pharmacy, Cashel; Mr. Henry Grainger, Ph.C., Kenny Street, Callan, Co. Kilkenny; Mr. Daniel J. Stapleton, Ph.C., 23 High Street, Kilkenny; Mr. Joseph Suche, Ph.C., 107 Upper George's Street, Kingstown; Mr. Francis Sullivan, Ph.C., The Pharmacy, Carrick-on-Shannon; Dr. John Thompson, Ph.C., 31 Alma Terrace, Carlisle Circus, Belfast; Mr. Christopher H. Williams, Ph.C., Hillside, Rathdrum, Co. Wicklow; Mr. James K. Yorke, Ph.C., The Medical Hall, Moate, Co. Westmeath; Mr. Robert Farrell, Ph.C., 22 Main Street, Blackrock, Co. Dublin; Mr. Richard Chism, Ph.C., Dundle's Medical Hall, Holywood, Co. Down; and Mr. Joseph Shillington, Ph.C., c/o Messrs. Davidson & Murray, Mountpottinger, Belfast.

Mr. Patrick J. Stafford, R.D., Drug Hall, Bishop Street, Tuam, was nominated as Associate Druggist.

THE PRELIMINARY EXAMINATION.

Mr. LANCASHIRE suggested that, in the event of ten or twelve candidates from Belfast notifying their intention of presenting themselves for the Preliminary examination, an Examiner should attend in Belfast and examine them there. Travelling to Dublin is now very expensive.

The PRESIDENT said that in order to do as Mr. Lancashire suggested it would be necessary to alter the Regulations. He thought it would be almost impossible to do it.

Dr. WALSH said he thought there was a special date mentioned in their Regulations on which the Preliminary examination was held, and it could not be held in two places on the same day.

Mr. HARDY said he had been requested by the Secretary of the Retail Drug Trade to bring the matter before the Council; but he found that while the Act of Parliament provided for the holding of the Registered Druggist examination in Belfast, they were prohibited by the Act from holding the Preliminary examination in that city.

Mr. LANCASHIRE suggested that they should make application to the Privy Council.

The PRESIDENT said it would entail additional expense to cover the Examiners' fees.

Mr. TATE suggested that alternate examinations should be held in Dublin and in Belfast.

Mr. WATSON said Dublin was more accessible to the whole of Ireland than was Belfast. To bring a Cork man to Belfast would be straining the matter.

No action was taken on the suggestion.

GREETING FROM AUSTRALIA.

The PRESIDENT submitted a greeting from the Pharmaceutical Council of Western Australia for the year 1919: "May peace with justice bring happiness and prosperity. Deus vult!"

THE CANADIAN DEPARTMENT OF TRADE AND COMMERCE states that the value of drugs, dyes, and chemicals imported during the twelve months ended November 1918 was \$32,336,426, compared with \$26,197,916 during the previous twelve months.

CONSULTING THE ORACLE.—One of "the most interesting queries" in "Answers" of February 8 is: "Does M.P.S. mean Military Police Section?" The reply is quite as interesting as the query. It runs:

No; it means Member of the Pharmaceutical Society of Physicians. Letters are confusing things these days. They are, evidently.

THE GERMAN TRADE OFFENSIVE.—The following advertisement appears in the "Chemiker Zeitung":

"Via Switzerland: Chemical and pharmaceutical products: German merchant in closest touch with this branch and with purely Swiss enterprises, excellent relations on Continent and overseas, will give fresh start to first-class Swiss firm acting as active and energetic intermediary."

Japan's Opium and Morphine Trade.

IN the *C. & D.* of October 30, 1915 (p. 50), we gave details concerning the large proportion to which Japan's morphine traffic with China had attained. The opinion was then expressed that the morphine trade was the most lucrative of all trades conducted by Japanese in China. It was pointed out that the trade with Tairen alone in 1913 amounted to 6½ tons (224,000 oz.), and that between the price at which this morphine made in Europe was purchased in Japan, and the price ultimately paid for it by the consumer, there was a margin—that is to say, there was a profit to the intermediary in the 6½ tons of \$8,400,000. In a recent issue of the "North-China Daily News" a correspondent gives some interesting particulars of this still flourishing trade, which is now larger than in 1913. The seat of the industry has, however, been transferred to Japan, and morphine is now made by the Japanese themselves, as it can no longer be purchased freely in Europe. Although Japan is signatory to the Agreement which forbids the import into China of morphine or of any appliances used in its manufacture or in its application, the traffic, inasmuch as it has the financial support of the Bank of Japan, is carried on with the direct approval and encouragement of the Japanese Government. The chief agency in the distribution in China is the Japanese Post Office, the morphine being sent by parcel post. No inspection of parcels in the Japanese Post Office is permitted to the Chinese Customs Service. The Service is allowed to know only what are the *alleged* contents of the postal packages as stated in the Japanese invoices, and morphine enters China by this channel by the ton. Wherever Japanese are predominant there the trade flourishes, as may be judged by the following statement:

Through Tairen morphine circulates throughout Manchuria and the province adjoining; through Tsingtao morphine is showered over Shantung province, Anhui and Kiangsu; while from Formosa, so favoured by geographical propinquity, the drug is carried along with opium and other contraband by motor-driven fishing boats to some point on the mainland, from which it is distributed throughout the province of Fukien and the north of Kuangtung. Everywhere it is sold by Japanese under extraterritorial protection. How efficient is that protection may be gauged by the fact that no Japanese has ever yet been punished for dealing in contraband in China. When Chinese police raid the morphine shops along the Tsinanfu railway in Shantung, as they have a right to do, for the traffic is illegal, Japanese gendarmes rescue the arrested and exact a fine, not from the guilty but it understood, but from those who attempted to uphold the law. In recorded instances known to American investigators the magistrate himself has been compelled to pay the fine. In South China morphine is sold also by Chinese pedlars each of whom carries a passport certifying that he is a native of the Island of Formosa, and therefore entitled to Japanese protection. Japanese drug-stores throughout China carry large stocks of the drug.

Japan obtains her supplies of opium from Persia, and also Korea, where the cultivation commenced immediately upon the closing of the opium shops in Shanghai, Japanese officials providing the seed, and opium grown under Japanese protection in Manchuria and Formosa is also an expanding source of the supply. But while the morphine traffic is a large one, there is every reason to believe that the opium trade upon which Japan is now embarking with such enthusiasm is likely to prove even more lucrative. At the Calcutta opium sales Japan has become one of the considerable purchasers of Indian opium for Formosa. Sold by the Government of India, this opium is exported under permit applied for by the Japanese Government, is shipped to Kobe, and from Kobe is transferred to Tsingtao. Some of the leading Japanese firms are interested in the business. It must be emphasised, says the correspondent of the "North-China Daily News," that

this opium is not imported into Japan. It is transhipped in Kobe Harbour to Tsingtao, from which point of vantage, assisted by the Japanese-controlled railway to Tsinanfu, it is smuggled through Shengtung into Shanghai and the Yangtze Valley. Opium purchased in Calcutta for Rs. 3,500 per chest—about £15,000—costs, delivered in Kobe Harbour, all told, well under £15,000 per chest. This opium—Tsingtao opium—is sold in Shanghai at \$500 a ball of 40 balls to the chest—a total of \$20,000 per chest. China's failure to sell "for medicinal purposes" her opium at \$27,000 per chest, the price asked by the opium ring, is thus explained. The price is undercut by the Japanese. There is reason to believe that between January 1 and September 30, 1918, not less than 2,000 chests of opium purchased in India were imported into Taingtao via Kobe. Upon this amount the Japanese authorities levy a tax, which does not appear in the estimates, equivalent to £15,000 per chest, a total for the 2,000 chests at the present rate of exchange of two million pounds sterling. The acquisition of this immense profit from a contraband traffic would explain the origin of those immense sums now being lavished upon the development of Tsingtao, and the establishment there of Japanese commercial supremacy.

It may be asked how it is possible that at Tairen, where the morphine traffic is greatest, and at Tsingtao, which is the chief centre of the Japanese opium trade, the importation of this contraband continues without the knowledge of the Chinese Maritime Customs. But at both Dalny and Tsingtao the Chinese Maritime Customs are wholly under the control of the Japanese, and wholly manned by them. Japanese military domination would forbid in both ports any interference with a traffic in which the Japanese authorities were interested. In Dalny the highest civic degree has been conferred upon the chief dealer in morphine and opium. Moreover, in the case of Tsingtao, by the agreement which relinquished to Japan the exclusive charge of the Chinese Maritime Customs, any trade in which the Government is interested, contraband or not, can be carried on without the official knowledge of the Customs. Article 3 of the Agreement of December 2, 1905, perpetuated in the Agreement of August 6, 1915, provides that any goods landed in Tsingtao under "certificates of Government" shall be free from Customs examination. Some time ago efforts were made by the Japanese to remove from the control of any but Japanese subjects the Chinese Customs of Antung and of Newchwang—with what object may be guessed.

Personalities.

MR. F. P. PICK, Ph.C., St. James's Street, Burnley, has been elected senior Vice-President of the Burnley and District Chamber of Trade.

MR. A. JERROLD-NATHAN, chairman of Barclay & Sons, Ltd., has been elected Chairman of the Improvements and Finance Committee of the City of London Corporation.

MR. FRED BASCOMBE, Ph.C., F.I.C., who for six years was Captain of the Lambeth Carlton Bowling Club, has been elected Chairman of the Surrey County Bowling Association.

MR. FRANK SOUTHERDEN, B.Sc., F.I.C., research and works chemist, has been appointed a director of Evans, Judd & Co., Ltd., manufacturing chemists, Exeter, Bristol, and London.

MR. S. R. HANCOCK, representative of Evans Sons Lescher & Webb, Ltd., has now moved to 8 Danes Hill Road, Leicester, where communications intended for him should be sent.

MISS C. A. ANDREWS, Employment Secretary of the National Association of Women Pharmacists (London Group), has been elected to the Executive of the Watching Council of the Ministry of Health.

DR. FRANK LEE PYMAN, director of the Wellcome Chemical Research Laboratories, has been appointed Professor of Technological Chemistry in the Manchester Municipal College of Technology and in the University of Manchester. Dr. Pyman will shortly vacate his position at the Wellcome Laboratories.

SERGEANT PETER IRVINE, R.A.M.C., Ph.C., has been demobilised after service in France during the past three and a-half years. We published a racy account of his experiences in the *C. & D.*, December 28, 1918, p. 33. After a brief holiday Mr. Irvine will resume his duties with the United Drug Co., Liverpool.

DR. T. A. HENRY, Superintendent of the Laboratories, Scientific and Technical Department, Imperial Institute, has been appointed Director of the Wellcome Chemical Research Laboratories in succession to Dr. Pyman. Dr. Henry was trained in pharmacy and was a Bell scholar. After passing his pharmaceutical examinations he engaged in research work at the Imperial Institute, and obtained the D.Sc. of London University for a thesis on sandarac resins. Dr. Henry is the author of "Aids to Chemistry" and of "Plant Alkaloids." The latter, published in 1913, is a standard work on vegetable alkaloids.

LIEUTENANT ADAM PROCTOR ATKINSON, Middlesex Regiment, elder son of Mr. A. Proctor Atkinson (H. Brounley & Co., Ltd.), has been awarded the Military Cross for a deed officially described as follows: "For conspicuous gallantry and devotion to duty in front of Villers Guislain on September 29, 1918. He rushed forward at the head of his company and gained his first objective. Afterwards he was surrounded during an enemy counter-attack, but held his post for twenty-four hours against concentrated fire from front and rear. He was the only surviving officer of his company, and kept his men in good heart by his determined example." Lieutenant Atkinson enlisted in August 1914, and went to France in September of the same year. His younger brother is a lieutenant in the Royal Engineers.

Births.

CROMBIE.—At the Nursing Home, 1 Regent Street, Coventry, on February 15, the wife of George Crombie, chemist and druggist, of a son.

JOHNSON.—At 18 Evesham Road, Leicester, on February 11, the wife of S. Howard Johnson, chemist and druggist, 249 Narborough Road, of a daughter.

Marriages.

LATTY-STONE.—At the Abbey, Bath, on January 13, by the Rev. Sydney A. Boyd, William J. Latty, dispensing chemist, 7 Bridge Street, to Ivy Victoria, only daughter of Mr. William Stone, St. George, Bristol.

MACGAVIN-WADSWORTH.—At Leeds Parish Church, on February 10, Montgomery, eldest son of the late Mr. John MacGavin, chemist and druggist, Preston, to Florence Mary, younger daughter of the late Mr. Isaac Wadsworth, Pontefract.

Deaths.

BENZIE.—At Mains of Leslie, Inch, on February 16, of pneumonia, Miss Annie Ronald Benzie, chemist and druggist, aged twenty-four. Miss Benzie served her apprenticeship to Mr. Marshall K. Watt, pharmacist, Esslemont Avenue, Aberdeen, with whom she afterwards remained as assistant. She studied at Gordon's College, winning in her first session of evening classes the first prize in pharmacy, and in her second the first general prize and a first (equal) in practical chemistry. During this time Miss Benzie was also a successful competitor in *THE CHEMIST AND DRUGGIST* "Corner for Students," turning her studies to such good account that in 1916 she obtained the first place in an analytical tournament (*C. & D.*, 1916, p. 592). In July of the same year she passed the Qualifying examination. Miss

Benzie was at the time of her death assistant with Mr. David Anderson, pharmacist, Fountainhall Road, Aberdeen. She was Vice-President of the Aberdeen Junior Chemists' Association, and took a keen interest in its social and educational work. An ardent golfer, she will be much missed at the gatherings of the Aberdeen Chemists' Golf Club.

COLLEY.—At Birmingham, on February 15, of pneumonia following influenza, Mr. Walter Colley, chemist and druggist, 151 Sherlock Street, aged sixty-six. Mr. Colley had carried on business in Birmingham for forty-four years, assisted latterly by one of his sons. Another son has a dental practice in the city.

DESTER.—At Aylsham, recently, Mr. Joseph Dester, chemist and druggist. Mr. Dester, who qualified in 1876, carried on business in Aylsham for many years. He was well known for his skill at bowls, and was a clever photographer. He gave up business about a year ago on account of ill-health. The funeral took place on February 17.

DUFFIN.—At 10 Westfield Park, Wakefield, on February 9, Mr. Thomas Duffin, Ph.C., aged eighty. Mr. Duffin passed the Major examination in 1861.

FAITHFULL.—At Broxbourne, Herts, on February 13, Mr. J. Gwyn Faithfull, Colonial broker, 37-38 Mark Lane, London, E.C.

INGLE.—At his residence, 6 The Broadway, Northampton, after a few hours' illness, Mr. George Ingle, chemist and druggist, aged fifty-seven. Mr. Ingle was the son of Mr. John Ingle, "Croft House," Bradford (Yorks), and was apprenticed in his native town with Rimmington & Son, chemists. He started business in Barrack Road, Northampton, twenty-one years ago, and by his energy and enterprise built up an excellent business. He is survived by a widow and one son. (See p. 48.)

McCAUL.—At Londonderry, on February 12, Mr. George McCaul, J.P., L.A.H.D., L.R.C.P.E. In early life Dr. McCaul was in partnership with a brother in the chemist's

business in Londonderry now owned by Craig & Wellwood, Ltd. He took his medical degrees in 1868 and 1869, and, returning to his native city, became a leading medical practitioner, and later a member of the city council. He leaves two sons.

MACEWAN.—At 12 Birchington Road, Crouch End, London, N., on February 16, Euphemia Thomson, widow of Peter MacEwan, F.C.S., late Editor of *THE CHEMIST AND DRUGGIST*. Mrs. MacEwan was well known in drug-trade circles on account of visits to the British Pharmaceutical Conference and other gatherings. Death resulted from blood-poisoning, which was brought on from the accidental laceration of the throat by a fish-bone. The funeral took place at the Marylebone Cemetery, East Finchley, N., on February 20, after a service at the house. We tender our deepest sympathy with the three sons and two daughters, who have thus lost both parents within such a short time.

PERRY.—At 51 Waggs Road, Congleton, on January 31, Mr. John Perry, chemist and druggist, aged sixty-four.

SCOTT.—At his residence, 10 Ormiston Road, New Brighton, Wallasey, on February 14, Mr. George Scott,

chemist and druggist, aged thirty-four. Mr. Scott was educated at the Liverpool Institute, and completed his pharmaceutical studies in Edinburgh, where he qualified in 1907. After further experience as an assistant in the North and West of England, he started on his own account in New Brighton about five years ago. He was an active member of the Wallasey Chemists' Association, and had recently been initiated into Freemasonry. Owing to a failure in health Mr. Scott had just disposed of his business in Liscard (see p. 49), and in spite of his illness had insisted on calling on Liverpool wholesale houses for the purpose of introducing his successor. Highly esteemed for his ability and his goodness of heart, his early death is deplored. He leaves a widow and an infant child. The funeral, which took place on February 19, was attended by several members of the Wallasey Chemists' Association.

WILSON.—At 7 High Street, Sydenham, London, S.E. 26, on February 6, after a short illness, Mr. Alexander William Wilson, chemist and druggist, aged fifty-nine.

YOUNG.—At Douglas, Isle of Man, recently, Mr. John Young, chemist and druggist. Mr. Young, who qualified in 1887, carried on business for many years in Market Place, Douglas, where he was regarded by the generality of the fishing fraternity as their "doctor." One feature that attracted notice on entering his shop was an assortment of small goods arranged on the counter and protected by a fishing-net. Mr. Young retired from business some years ago, but, not feeling content away from his old sphere, returned to it. He will undoubtedly be much missed by those whose wants he ungrudgingly supplied. He was at one time a member of the Douglas Town Council.

Died on Service.

WYBORN.—At Queen Alexandra's Military Hospital, London, S.W. 1, on February 6, of pneumonia following influenza, Lieutenant Walter Samuel Wyborn, Royal Inniskilling Fusiliers, aged twenty-three. Lieutenant Wyborn, who was the youngest son of Mr. Edward Wyborn, chemist and druggist, Lewes, had served with distinction in France, where he was wounded.

Wills.

MR. HENRY BURTON BERRY, chemist, 34 Southam Road, and the Market Place, Hall Green, Warwick, who died on August 27, left estate valued at 275*l*.

MR. PETER HAMILTON MAXWELL, chemist and druggist, 53 Willow Place, Belgrave Square, London, W., who died on November 25, left estate valued at 1,900*l*. 5*s*. 3*d*. gross, with net personality 890*l*. 0*s*. 4*d*.

MR. CHRISTOPHER PERKINS, chemist and druggist, Sabina View, Beches Lane, Shrewsbury, who died on November 24 intestate, left estate valued at 647*l*. 15*s*. gross, with net personality 597*l*. 14*s*. 2*d*.

Trade Notes.

SPANISH OLIVE OIL.—Lonsdale & Thompson (1916), Ltd., 58 Corporation Street, Manchester, offer olive oil which is now being imported in quantity from Spain.

DIAMOND DYES for home dyeing are now obtainable from Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C. 1. A list of the shades now available appears in this issue.

TO SAVE ENVELOPES. Jas. F. Wilkinson, chemists' printer, Bury Street, Pendleton, Manchester, suggests the Reindeer "Self-lock" stationery for order-forms, statements, invoices, etc.

ULTRAVI LAXOLIN.—The C.V.O. Chemical Works, Ltd., Petersham Road, Richmond, Surrey, offer adeps lanae, B.P., under the brand-name "Ultravi." Inquiries for samples and prices are invited.

WARD & GOLDSTONE, Salford, Manchester, are exhibiting at the British Industries Fair, which opens in London on February 24. The firm's advertisement tells how to get to the Fair, and other particulars.

SURGICAL DRESSINGS.—Robert Bailey & Son, Marriott Street Mills, Stockport, give in their advertisement the prices of absorbent cotton-wool, gauze, gauze tissue, lint, and bandages. The list is well worth studying.

PACKING-CASES.—A special house for cases, crates, and boxes is W. H. Thomas & Sons, Ltd., 3 Salop Road, Oswestry. The company claim to be in an exceptionally favourable position to quote for these, and correspondence is invited from all users of cases.

POMEROY'S TOILET SPECIALITIES.—Showcards (8 x 6 in.) are now obtainable for Pomeroy Skin Food, tooth-paste, and day cream. The advertisement of Mrs. Pomeroy, Ltd., 115 Harwood Road, Waltham Green, London, S.W. 6, contains an offer to supply these.

INFLUENZA MASKS.—A demand is anticipated in London for influenza masks, and stocks are being carried by chemists. The standard make is the "Arellano" mask, made by John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E.

MILK OF MAGNESIA.—The Chas. H. Phillips Chemical Co., 14 Henrietta Street, Covent Garden, London, W.C. 2, inform us that supplies of "milk of magnesia" are now being received, and it is hoped within the next few weeks ample stocks will be on hand to meet all demands.

NILELI is a powder dressing for seeds which protects turnip and other root-crops from fly. It is made by Hawker & Botwood, Ltd., 59 Mark Lane, London, E.C. 3, who are also manufacturers of Corvusine D.G., the liquid seed-dressing which has been before the trade for some years.

SPRING CLEANING.—The Texalo Manufacturing Co., Trafalgar Square, Blackpool, offer paints, varnishes, distempers, enamels, stains, and polishes suitable for the spring-cleaning trade. A special line is Rayolene black japan, the prices for which are given in the advertisement in this issue.

PACKED REMEDIES.—Carmol, Ltd., manufacturing chemists, Washington Street, Birmingham, are packing a series of own-name remedies to retail at 1s. 3d. per bottle. The company claim that by this means a chemist can serve his customers quicker and make as good a profit as if he had especially compounded the mixture for the customer.

TOOTH-BRUSH PRICES.—An announcement in this issue by the Master Bone Brush Makers' Association refers to the price of tooth-brushes. The members of the Association have agreed upon wholesale prices for tooth-brushes, which are given in the advertisement. No hope is held out of a reduction in prices in the near future, the tendency being that prices may advance still higher.

BRITISH-MADE SYRINGES.—An interesting announcement in this issue by the General Surgical Co., Ltd., 147 and 149 Farringdon Road, London, E.C. 1, deals with syringes of British manufacture. We have had an opportunity of inspecting each of the kinds of syringes figured in the company's advertisement, and various tests which we have made with these syringes convince us that the workmanship is first-class and a credit to the country. Wholesalers and exporters will be glad to know that these articles are really British-made, and, moreover, are superior to the goods of German manufacture with which this country was flooded before war broke out. Visitors to the British Industries Fair can see samples of these syringes at the Exhibition, but a new illustrated price-list is in preparation, for which application should be made.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

DATE OF ENLISTMENT.

Mr. Churchill stated in the House of Commons on February 13 that to determine whether a warrant officer, N.C.O., or man is eligible for demobilisation under Army Order 55 of 1919, the date taken into account is the date he joined the Colours for immediate or continuous service.

MINISTRY OF HEALTH BILL.

Dr. Addison on February 17 introduced the Ministry of Health Bill, which has since been printed. The Bill is almost identical with that introduced last November (C. & D., November 23, 1918, p. 43), but we notice a new sub-section relating to the promised reform of the Poor Law.

AN ASSISTANT'S DEMOBILISATION.

Captain Guest, in the House of Commons on February 19, said he would make inquiries as to the reason why Private A. A. Robinson, No. 21672, now attached to the 53rd Y. and S. Battalion, A Company, Hants Regiment, Rolleston Camp, Salisbury, has not been released from the Army, as this man was asked for, with all the necessary papers, in December 1918, and again on January 28, 1919, but is still detained, Private Robinson being absolutely necessary for the carrying on of his employer's business (chemist) and the obligations under the National Health Insurance, and as the partners in this business are serving and the staff is so depleted.

CHEMICAL INDUSTRIES THREATENED.

Mr. Herbert asked the President of the Board of Trade in the House of Commons on February 19 if he is aware that the manufacture in this country of certain fine chemicals, such as saccharin, which has been started during the war with the support of the Government as a key industry of national importance, is seriously threatened by the removal of restrictions on import or the removal by foreign countries of restrictions on export; and whether he will consider the advisability of restricting the import of such fine chemicals, in order to preserve the new industry in this country pending the proposed legislation against dumping and for protection of key industries.

Mr. W. C. Bridgeman replied that the whole question as to the means to be adopted for the maintenance of new industries is now engaging consideration, and he hopes that it will be possible to make a statement on the subject shortly.

WAR BONUS TO PANEL DOCTORS.

Sir Kingsley Wood, in the House of Commons on February 17, asked the representative of the National Health Insurance Commissions under what statutory authority and from which fund the proposed war bonus to panel doctors is being made.

Mr. Pratt, in reply, stated that early in last year the Chancellor of the Exchequer received a deputation of Insurance practitioners, and in reply to their representations promised them a supplementary remuneration in respect of the increased cost of living and practice expenses in certain cases. The total cost cannot be accurately estimated until all the applications have been dealt with, but it is not expected to exceed 250,000. It will be paid under the statutory authority of the Appropriation Act, from Exchequer moneys voted by Parliament for the purpose of supplementing the Exchequer moneys, approximating to some two million pounds, annually expended on medical remuneration apart from the funds derived from Insurance contributions.

Information Department.

INFORMATION WANTED.

12/25. Malt Extract Jars (serew capped): immediate supplies	58/42. "Newport" Sanitary towels
55/26. Carter's Essences for jellies and pudding powders	56/36. "Viscous"
56/38. Psychia toilet cream	56/36. Liq. Infalo or Ingalo Co.
56/38. Saponolin or Saponolis	59/9. "Mitcham's Mins C. N. & C."
52/72. "Taxi" dentifrice	55/13. Hydrolene for asthma

INFORMATION SUPPLIED.

Bracher's desideratum mixer, 25/47	Conceas, 39/27
Camphorated Oil, 271/32	Cotton-wool (absorbent) (Dutch inquiry), 7/10
Carbon bisulphide, 42/73	Coty's perfumes, 4/30
Castor oil, 41/54	Craven's pile ointment, 45/61
Castor oil (Norwegian inquiry), 56/33	Egg-yolk, powdered, 58/10
	"Entrapuro", 52/37

Observations and Reflections.

By Xrayser II.

The Report

of the Organisation Committee, accepted by the Council at the meeting of February 5, presents a scheme of co-called territorial representation which is confessedly imperfect, cumbersome, and legally unworkable. Such a scheme stands self-condemned; it is offered merely, as a sop, and though as such accepted by a majority of the Council, it satisfies nobody—even on that body, is repudiated by those who really have territorial representation at heart, and will, if we have any political sense left among us, be condemned by the trade at large. It appears indeed to be intended for the present to apply only to election to the L.A.E., as a forerunner of a more complete scheme applicable to election to the Council. As a preliminary to this it will be necessary to alter the constitution of the local Associations, to restrict membership of them to members of the Society, and then—this is admitted—to obtain "statutory sanction" for depriving electors of their present legal right to seven votes, and I know not what other changes. And this is the scheme put forward ostensibly for the purpose of avoiding the necessity for fresh legislation! This is the scheme which makes it unnecessary, in the words of the Report, to "wait for fresh legislation"! As regards

The Election

of the L.A.E., the scheme would probably be a great improvement on the present method, but even here it is very imperfectly territorial, and it does not emancipate the Local Associations' Executive from the control of the Council. It is made a condition that in every one of the six areas into which the electorate is to be divided one of the two persons elected by the Associations must be a member of the Council; each federation of Associations would thus have free choice of but one person, another would be elected by the federated Committees, the remaining three would consist of two persons co-opted to represent corporate bodies, and the President of the Society *ex officio*. The Executive's duplicity of constitution would thus remain, and it would be as desultory in its functions as at present. Is it (as the man asked of marriage) worth while going through so much for so little, especially since the Council already foresees what I foretold a few weeks since—that fresh legislation is apparently to be thrust upon us whether we wish it or not, and that consequently an opportunity for a more satisfactory scheme is likely to be afforded us?

The Unofficial Reports

of the discussion of this scheme (which I had not seen when the foregoing paragraphs were written) are the most startling revelation of the way in which the meetings of the Council are conducted that has ever been made, and we can no longer wonder why the demand for publicity has been so strenuously resisted. The attempt to pass the Report without any discussion at all, the subsequent attempts, in great measure successful, to burke the discussion that had been at last allowed, the abominable rudeness of the President to those who opposed these attempts or made any critical contribution to the debate, the whole business in fact, from beginning to end, will excite mingled indignation and contempt. No wonder Messrs. Wolff, Skinner, and Hines retired in disgust. We must, however, be thankful that they persisted as long as they did, and have given us this flash of light upon the Council's methods and manners. It will not soon be forgotten.

The New British Industries

enumerated by Mr. Woolley in his address at Leeds, were classed by him under twenty-three heads, most of which included a great number of different articles, and as only chemical industries or industries more or less connected with chemistry and pharmacy were dealt with, and Mr. Woolley's list was confessedly incomplete, we have here given to us only a general idea of the extent to which we have awakened to the

necessities of the time, and to which in the past we have allowed Germany to monopolise the supply of such necessities. It is easy, of course, to denounce German business methods, to complain that she does not "play fair," and so on, and there is much truth in these denunciations, but it is both more manly and more profitable to emulate German energy and enterprise. If a moral may be drawn from the frauds of the unjust steward, we may find one here too. As regards almost all these industries Germany had no initial advantage over us, but very much the reverse, and we are now showing, as Mr. Woolley demonstrates, that we are in other respects quite able to equal and even to surpass her when we try. This is the most satisfactory feature of the address; already we have gone one better than our rivals in some particulars, and have shown an all-round efficiency that assures us of holding our own in any future competition with her, if only we keep on trying. Mr. Woolley concluded with an application to us personally as pharmacists. He repeated the suggestion made some time since in the editorial columns of the *C. & D.* (which I was glad to see repeated in the same columns last week) that the Pharmaceutical Society should establish or help to establish such a laboratory of pharmaceutical research as should entitle it to a grant from the National Research Fund. It is a suggestion that ought to be taken up at once, and that every pharmacist should support by every means, financial or other, in his power.

The Critic

is not often a popular person; he is used to getting more kicks than hapence, even from those who might profit by him; but he does not mind that if only people will listen. "Strike, but hear me," is his motto. Mr. Gifford has been kicking vigorously, yet a little criticism of his own remarks might have shown him that they go far towards justifying the habit he deprecates. He remembers a time—and so do I!—when things were wofully "backward and discouraging"; inertia was the order of the day; we were in effect all asleep. But a change has come; we have wakened up; things are advancing. Why? Because, as Mr. Gifford says, this is an age of criticism. Not a single advance that we, or I might say anybody else, has made would have been made without previous criticism, yes, and "destructive" criticism, too. It is stagnation that hinders progress, criticism that provokes it. No philosophy, said Jowett, has ever stood the criticism of the next generation, and it is certain that no political system, pharmaceutical or other, is proof against it. So I am afraid that I, for one, must go on criticising, though we have begun to advance and Mr. Gifford thinks it is "not cricket" to point out defects in anything of which he happens to approve.

Neither Mr. Glyn-Jones

nor Mr. E. N. Lloyd need be put to the trouble of stating his view of your correspondent "Rhei's" case. If it is as he says—if, that is, it is really through no fault of his own that he has been unable to qualify—he is most unfortunate; but it is not the system, but his circumstances, that must be blamed. Individual cases of hardship may occur under any system, even the most perfect; there are exceptions to every rule; no law for general use can take account of every exceptional case. Has your correspondent ever made a serious attempt to pass, ever actually presented himself for examination? Personal statements like his are, of course, of no evidential value at all unless properly authenticated. He may be quite sincere in declaring himself blameless, and yet quite mistaken. If he submits himself to the judgment of Mr. Glyn-Jones, or of anybody else, he should do so under his own name, so that his statements may be verified; but, taking them at their face value, does he propose that our educational system should be suspended to meet his special case?

FOR BROKEN CHILBLAINS.—Ung. hyd. ox. flav., ʒij.; ung. zinci ad ʒij. Apply this night and morning, says "Medico," in the "Birmingham Weekly Post."

"SANITAS"

NON-POISONOUS

DISINFECTANTS

FLUIDS, POWDER, SOAPS & APPLIANCES

Should be stocked by all Chemists.

THE "SANITAS" CO., Ltd., LIMEHOUSE, LONDON, E. 14

BRITISH

ABSOLUTE ALCOHOL

Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E. 11

Essential Oils

AND

Aromatic Chemicals

W. NAUMANN, 40 Charterhouse Sq., London, E.C. 1.

THYMOL

White B.P.

*Continually the leading market.***H. RUBECK**, DISTILLER OF ESSENTIAL OILS — Established 1856.

59 Mark Lane, London, E.C. 3.

Works - Rotherhithe, S.E. 16.

HYPOSOL LIMITED,

High Road, Wealdstone, Harrow,

ARE PROBABLY THE LARGEST
MAKERS OF

Cork Tubes & Ampoules

IN THE UNITED KINGDOM.

Made from neutral Amber or White Glass, and
of capacities from 10 min. to 50 c.c.

Phone : Harrow 600.

Sugar is not required—if***Fletcher's Concentrated Liquors******are used in place of the corresponding Syrups.***

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, W.

Editorial Articles.

Japan's Trade in Morphine.

LORD ROBERT CECIL, one of the three principal collaborators of the League of Nations Covenant, speaking at the Peace Conference, said that the question of the opium trade called earnestly for effective international co-operation. We wonder if his lordship has had the temerity to call the attention of the Japanese representatives at the Peace Conference to the matter, or whether a merely pious opinion was expressed. The matter may, however, receive official consideration, as we learn from the Peking correspondent of the "Times" that a mass meeting of the International Anti-opium Association has passed a resolution to send telegrams to all members of the Peace Conference against the traffic in morphine with China carried on by the Japanese. The revelations of this trade, which we publish on page 56, show the enormous and wholly illicit character of the business in opium and morphine conducted by Japan in China, notwithstanding the fact that Japan was a signatory to The Hague Opium Convention. Were this even an affair of private enterprise, of unscrupulous Japanese taking advantage of their proximity and ease of movement in China, Japan's conduct would not be free from censure. But the case is far worse than this. The Japanese Post Office, we are told, is a large distributor of morphine. Japanese military authorities at Tsingtao pass it and opium through as "military stores." A tax is regularly levied upon it, which yields enormous sums for the embellishment of Tsingtao. And, worst of all, the Japanese employes of the Chinese Customs, who are in a fiduciary position to the British Empire, who pays them, are accused of betraying their trust in order to further this ugly trade. The substantial accuracy of the statement of the correspondent of the "North China Daily News" cannot, unfortunately, be questioned, and he exposed the business so far back as 1915. For a considerable time past it has been known that morphine injections were easily and cheaply obtainable from Japanese chemists in Shanghai, and latterly larger figures have been received dealing with the opium trade through Tsingtao. It is to be hoped that Japan will be called upon to put a stop to this nefarious business, which it can do at once if it pleases. Japan claims a special interest in China's commerce, as she may naturally do. She also asserts her special benevolence where Chinese welfare is concerned. But how can these facts be reconciled? The opium trade brings in millions of yen to the Japanese coffers, but in the eyes of the world the Japanese Empire stands to lose infinitely more than the worth of many chests of opium. Great Britain cut off the trade in Indian opium for the benefit of China, but Japan has stepped into the breach, and our Foreign Office has not had the courage to raise a word of protest. Japan, of course, has her own morphine factories, and during the war was a large buyer of opium in Persia—in fact her support of that market has helped to bring about the extremely high prices that have been ruling. Although the exports of morphine from Great Britain have been rigorously cut down, they are still large, and when the 1918 figures are published we should not be surprised if they reach 160,000 oz. for the year.

A French Pharmaceutical Dilemma.

IN no country is the absence of up-to-date pharmaceutical legislation more acutely felt than in France, and the exercise of the profession were promulgated during the Revolution, and have not been repealed since. Needless to say that modern conditions frequently place the French pharmacist, desirous of keeping within the provisions of a law enacted about 120 years ago, in a very awkward predicament; in fact matters have reached such a state that the General Association of Pharmaceutical Societies in France has been practically compelled to draw the Government's attention to an intolerable state of affairs. The French law prohibits the sale of "secret remedies," and includes under this description all preparations not included in the Codex, or the formula of which has not

been published by the Government; this was enacted by the law of 21st Germinal of the year XI. Now, as French pharmacists rightly point out, the appellation "secret remedy" legally includes anything from the most valuable recent addition to *materia medica*, of the utmost therapeutic value, to the most evil mixture engendered by quackery. This is an intolerable state of affairs, which a classical case will best illustrate. In 1906 the French higher court decided that a pharmacist who had supplied urotropine on a medical man's prescription was guilty of a punishable offence—urotropine not being included in the *Codex* it was a "secret remedy," hence might not be supplied. French pharmacists point out that as urotropine is not included in the 1908 *Codex*, its sale is still illegal, and the same applies to a great number of preparations largely used abroad, and even official in many foreign Pharmacopœias. As the *Codex* is published only at long intervals, which do not keep pace with the advances of science, it is suggested that a way out of the difficulty would be to give effect to a paragraph of a law of May 3, 1850, which has hitherto scarcely ever been acted upon, to the effect that "new remedies recognised as useful by the national Academy of Medicine, and the formulas of which, with the approval of the Minister of Agriculture, and consent of the owners or inventors, are published in that learned body's bulletin, shall cease to be regarded as 'secret remedies,' and consequently may be freely sold by pharmacists pending their inclusion in a new edition of the *Codex*." The pharmacists now suggest that the permanent commission of the *Codex* should take the initiative in submitting to the Academy of Medicine the preparations which it proposes to include in the forthcoming edition of the Pharmacopœia, and their publication by the Academy would confer upon them the status of officially recognised remedies, avoiding all the inconveniences attending the issue of supplements to the Pharmacopœia. This matter has raised the question of pharmaceutical specialities "the nature and composition of which rests solely on the arbitrary choice of their manufacture." Professor Bourquelot gave the following definition at the Academy: "An honest speciality acquires a legal existence if it complies with the sole condition of publishing its composition. The originality of the product resides in the perfection of its manufacture, and the use of operations and procedures which are not disclosed; but no substance whatever may be administered to the patient unknown to the doctor. That is the minimum of protection necessary for the health of the public, and which the Academy has the right of demanding." The Academy itself formulates the following addition to the law of 1850—viz., "that every simple or compound remedy, the quantitative as well as qualitative composition of which is not known, shall be regarded as a secret remedy and proceeded against as such."

Index to Volume XC.

THE INDEX TO VOLUME XC., covering the whole of the issues of THE CHEMIST AND DRUGGIST for 1918, will be published this week. In response to notices published last month we have received many applications for copies of the index, which will be sent out so soon as possible. We shall be glad if those of our subscribers who desire copies and have not already notified us to that effect will send us postcard requests so that we can reserve copies for all who need them. The index will not be sent out with THE CHEMIST AND DRUGGIST, and the number to be printed is limited; early application for copies is therefore desirable.

Sampling Saccharin Tablets.

THE Sale of Food and Drugs Acts inspectors in London are taking samples of saccharin tablets from chemists. There have been complaints in the papers about the quality of these tablets, and we presume that has moved the authorities to take samples for analysis. If any of the cases come into court it will be an interesting point as to the standards which the analyst will endeavour to adopt, but we suspect that the way the tablets are labelled will be the decisive factor.

Dentists Acts Committee.

ALTHOUGH the text of the recommendations of the Committee on the Dentists Acts, presided over by Mr. F. D. Acland, M.P., has not yet been published, they constitute (our Parliamentary Correspondent informs us) a substantial victory for the unregistered dental practitioner and a great justification for bringing forward their case with so much persistency and energy. At the time the Committee was set up the order-paper of the House of Commons was crowded with questions which showed how widespread was the interest taken in the present position and probable future of these dentists. Complaint was made that the unregistered dentist was unrepresented on its *personnel*, but, as Mr. Bonar Law pointed out at the time, and as has been abundantly justified throughout the inquiry, the unregistered practitioners have had frequent opportunities for placing their views before Mr. Acland and his colleagues. Our Parliamentary Correspondent learns that the main recommendation affecting their interests is one to the effect that an unregistered practitioner, who has so acted without default for a period of five years, shall be allowed to continue to occupy his position without let or hindrance, and shall be entitled to style himself a "dental surgeon." Equally, an unregistered dentist who has held such a position for a lesser period—say, two years—shall, with certain modifications, be admitted to the same privileges. A complete register of all dentists—both registered and unregistered—is to be kept, describing the practitioner, his degrees and other qualifications. Legislation will be required to give effect to these recommendations, but it may be, inasmuch as the registered dentists have presumably agreed to the recommendations arrived at, that, with the assistance of the Government, no insuperable difficulty will present itself in this direction. The need for more dentists was never greater than it is at present.

Exporting Proprietary Articles.

It will be remembered that in December 1917 an imprudent attempt was made by the War Trade Department to force manufacturers of proprietary articles to disclose the exact formula for these medicines if it were required to obtain permission to export. The extraordinary attitude of the authorities in this matter was commented upon in THE CHEMIST AND DRUGGIST at the time, and after negotiations extending over three months the Proprietary Section of the London Chamber of Commerce managed to obtain a modification of the conditions. It is satisfactory now to be able to state that an open general licence has been issued permitting the export of the under-mentioned proprietary medicines to all non-enemy destinations without the usual guarantees against re-export, and to those enemy destinations with which trading is now permitted:

Aitken's (Dr.) Syrup.	Guy's Tonic.
Anti Kanmia.	Himrod's Asthma Cure.
Antipon.	Holloway's Pills.
Beecham's Pills.	Icilma Cream.
Beetham's Larola.	Jenner's (Dr.) Absorbent
Bishop's Citrate of Mag-	Lozenges.
nesia.	Kruschen Salts.
Blair's Gout Pills.	K's Vegetable Pills.
Brandreth's Pills.	Kutnow's Powder.
Carlsbad Salts (Evans').	Liquozone Laxatives.
Carter's Little Liver Pills.	Lung Tonic (Owbridge's).
Cassell's Tablets.	Morrison's Pills.
Cockle's Pills.	Mother Siegel's Pills.
De Sanctis Pills.	Mother Siegel's Syrup.
Dinneford's Magnesia.	Mothersill's Seasick Remedy.
Doan's Backache Kidney	Potter's Asthma Cure.
Pills.	Purgen Tablets.
Doan's Dinner Pills.	Sargol.
Dr. Morse's Indian Root.	Savory & Moore's Lozenges.
Dr. Williams' Pink Pills.	Smedley's Paste.
"Double Peppermint."	Steedman's
Eade's Pills.	Soothing
Evans' Throat Pastilles.	Powders.
Foramint Tablets.	Therapion Nos. 1 and 2.
Gloria Tonic Pills.	Woodcock's Wind Pills.
"Green Seal" Citrate of	Woodward's Gripe Water.
Magnesia.	Wrigley's Spearmint Gum.

Application to the War Trade Department is no longer necessary in respect of the above articles.

What are Fine Chemicals?

THE term "fine chemicals" is often employed in the narrow sense as meaning those chemicals made in comparatively small quantities and handled in medicine. Mr. C. A. Hill (The British Drug Houses, Ltd.) points out in "The Analyst" that medicinal chemicals are but one sub-group of the heterogeneous group of substances comprehensively termed "fine chemicals." Analytical reagents and other laboratory chemicals are another sub-group of fine chemicals. In their paper on "The Manufacture of Fine Chemicals in Relation to British Chemical Industry," read before the Society of Chemical Industry at their annual meeting in July 1916, C. A. Hill and T. D. Morson used the term "fine chemicals" in this comprehensive sense, and classified fine chemicals into three sub-groups: (1) Reagents, (2) pharmaceutical, and (3) technical. The third group is capable of considerable subdivision, and a number of instances were given in the paper showing how far-reaching is the fine-chemical industry. When the Association of British Chemical Manufacturers was founded, a group known as the Fine Chemical Group was formed, and the terminology adopted was that used by Messrs. Hill and Morson, slightly extended, and appears thus under the general title:

Grouping of Chemical Industries ... Group VI.

FINE CHEMICALS: Analytical; Pharmaceutical; Photographic; Rare Earths; Synthetic Essences and Perfumes.

Belgian Pharmacy's Aims.

ALREADY prior to the war there was a movement on foot among a section of the pharmaceutical practitioners in practically all Continental countries aiming at a closer economic union of all members of the profession. On broad lines the objects were to manufacture in bulk those galenicals which the individual pharmacist found it unremunerative to make, and to co-operate in purchasing stock. The manufacture of counter specialities and of surgical dressings was included, and in many cases the programme had a distinctly combative element directed against the activities of those who undersold their neighbours. The Nationale Pharmaceutique, the recognised representative body of the profession in Belgium, now develops a programme which is distinctly ambitious, and has been adopted by the council as the solution of the "moral renovation" of the profession. In the first place, in regard to specialities, it is pointed out that every product handed out by the pharmacist is sold under his personal responsibility; hence it is his duty to analyse every article he sells, to assure himself of its quality and ingredients. The Nationale states: "We are inundated by new products endowed with the most wonderful virtues—according to the circulars. Their sale is forced upon us, although we know of their existence only as much as the one-sided literature prepared by the manufacturer discloses. Surely this corporation, which holds the monopoly of the sale of medicinal products in Belgium, must have sunk very low to allow itself to be treated in this manner. These foreign birds become domesticated, we accept them, stock them, and sell them without knowing their value nor their composition. Is this not a shameful and revolting state of affairs for a body of men armed with the monopoly of the sale of medicines?" The remedy proposed is that the manufacturers shall guarantee to supply articles strictly in accordance with the label, and a special stamp will be affixed to each container to show that this contract holds good. The buyer will have to formulate his orders with the greatest care and precision. A central laboratory will be established, which will see that all new products are carefully analysed and impartial information regarding them supplied, while specialities will have to conform with the model deposited with this institute. This step is not directed against useful specialities, but the whole plan is to be considered as an effort to assert the liberty, the dignity, and the responsibility of the Belgian pharmacists as professional men. "Let us prevent the disastrous consequences which the prevailing frenzy of producing specialities will have for us some day. Let us make our own laws, to have the certainty that they will not be made against us." Further particulars of the plan are promised.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Complaint against a Chemist.

The National Health Insurance Commission (England) have, as a result of the report of the Inquiry Committee appointed to investigate the case of Mr. J. Lloyd Davies, chemist and druggist, 63 Golborne Road, North Kensington, London, W. (C. & D., 1918, p. 1046), decided that his continuance on the list of persons entitled to supply drugs, medicines, and appliances to insured persons would be prejudicial to the efficiency of the medical service, and, accordingly, to remove his name from such list as from February 20, 1919.

Reports from Local Centres.

ENGLAND.

Bradford.—The Insurance Committee's annual report shows that there were during the past year no complaints by insured persons against doctors or chemists, but there was one complaint by a doctor against a chemist, of speaking in a manner derogatory to the doctor and insulting to the patient. This case was sent to the Joint Services Committee, but the doctor failed to appear at the meeting, and the matter, therefore, was not proceeded with. The report draws attention to the seriousness of the influenza epidemic in July and November, the medicine accounts for these months being respectively 1,093*l.* and 1,051*l.*, against 513*l.* and 550*l.* in the corresponding months of 1917.

Halifax.—At the recent meeting of the Insurance Committee the minutes of the Medical Benefit Sub-Committee recorded receipt of a letter from the Commissioners in regard to extra supplies of whisky for influenza patients. This supply is to be sold only under doctor's certificate, and the bottles must bear distinctive labels. The sub-committee supported the views in the letter. Mr. A. Pickard strongly objected that the suggestion was a contravention of the Act, as whisky was not a medicine within the meaning of the statute. He knew chemists had had great difficulty in obtaining whisky as a medicine. Mr. Pickard's amendment received only two votes, and the minutes were adopted.

Kent.—The Insurance Committee, met at Maidstone on Wednesday, February 12, Mr. C. Igglesden presiding. The Medical Benefit Sub-Committee reported that a letter had been received from the Insurance Commissioners in reply to the Committee's letter with regard to the difficulty experienced by chemists on the panel in obtaining malt and cod-liver oil and malt. The Commissioners stated that they understood there was an abnormal demand for these medicines. The home stocks were, however, being conserved by a strict control of exports, and steps had been taken with a view to the release of additional raw material. The number of chemists under agreement with the Committee for 1919 is 190, representing 264 shops—a reduction of four chemists as compared with last year. Other persons undertaking to supply drugs and appliances number three, representing three shops—the same as last year. The Finance Sub-Committee recommended that, subject to the Commissioners' approval, advances be made to the Pharmaceutical Committee within the estimate of 450*l.* for administrative expenses for 1919.

London.—The Pharmaceutical Committee met on February 11, Mr. G. B. Barnard in the chair. The report of the Central Checking Bureau showed that the margin of error for September last was 0.13 per cent. The Insurance Committee wrote regarding a complaint from the Panel Committee with respect to the early closing of chemists' shops, and it was decided to ask the Insurance Committee to defer consideration of the matter until the chemists' representative (Mr. A. R. Melhuish) was able to attend. The Secretary reported that the average cost of prescriptions for 1917 was 5.64*d.* (ingredient fee 2.8*d.*, dispensing fee 2.83*d.*), and for 1918 it was 6.93*d.* (ingredients 3.63*d.*, dispensing 3.3*d.*). In order to avoid inconvenience to chemists through delay in dealing with the December accounts, arrangements have been made for a *pro rata* payment for January, based on the corresponding month of 1918, with an adjustment later.

PERPATETICS.—In the commercial agreement between Germany and Finland, the classes excluded from the provision giving equal mutual trading rights are "chemists and druggists, commercial and stock brokers, pedlars, and other persons carrying on an itinerant trade." It is not explained how these itinerant chemists and druggists do their dispensing; but perhaps it is a case of *solvitur ambulando*.

Associations' Winter Session.

Bristol.—A meeting of chemists' managers and assistants was held in Bristol on February 11, under the auspices of the National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks. After hearing the arguments of the local secretary and the organiser, it was decided to form a chemists' branch of the Union. The majority of those present gave in their names for membership.

Bury.—The annual meeting of the Bury Pharmacists' Association was held in the Derby Hotel on February 11, Mr. L. Moreton Parry (Liverpool) and delegates from the Oldham, Rochdale, and Radcliffe Associations being present. Mr. J. O. Harwood was elected *President*, Mr. C. C. Alcock *Vice-President*, and Mr. R. W. Taylor re-elected *Secretary*. At the request of the President, Mr. Parry addressed the meeting. He gave a brief *résumé* of the work done by the Pharmaceutical Society during the war, finally commenting upon what he termed the "dream of his life"—the War Auxiliary Benevolent Fund—and expressing his great appreciation of the ready response made to his call. The President, in thanking him for his address, stated that it was gratifying to know that the money subscribed towards the W.A.B.F. was in worthy hands, and that the disbursement would be made in a right manner. At the subsequent dinner representatives of the Bury Medical Association and the Insurance Committee were present. A very enjoyable evening was spent, the principal speakers being Mr. Parry, Dr. Johnson, Mr. Oscar Hall (Insurance Committee), the President of the Bury Pharmacists' Association, and the Presidents of the Oldham, Rochdale, and Radcliffe Associations. The musical programme was contributed by Messrs. Moore, Whitehouse, Waddington, and Stock in excellent manner.

Chemists' Friendly Society.—The sixth annual meeting was held in the Glasgow and West of Scotland Chemists' Association Rooms, Hill Street, Glasgow, on January 30, Mr. Thomas Guthrie in the chair. The report, submitted by Mr. William McCallum, manager, showed that the cash receipts during the past year amounted to 2,173l. 0s. 10d. The invested funds amount to 11,490l. 13s. 10d. The retiring directors were re-elected, Messrs. James Lennox and Robert McNinch being elected *President* and *Vice-President* respectively.

Derby.—A joint meeting of the Derby (Borough) and Derbyshire Pharmaceutical Associations was held at the Midland Hotel, Derby, on Wednesday, February 12, Mr. J. Osborne, J.P., presiding, when Councillor J. W. Deakin, J.P., spoke on *Matters of Importance to Retail Chemists*. In a carefully prepared and well-ordered address he instanced the contributions made to civilisation by men connected with pharmacy, and traced the progress of pharmacy and of the Pharmaceutical Society up to the present time. Coming to modern needs, he visualised the promises made by the Chancellor of the Exchequer in regard to Insurance dispensing, and showed in what manner these promises had not been fulfilled. The inadequacy of the remuneration made to pharmacy was admitted, and reasons why greater pressure had not been put upon the Government were given. Comment was also made on the wide difference in the remuneration granted to the practitioners of medicine and pharmacy, and a tribute was paid to the Secretary of the Derbyshire Association for his work in connection with the mile limit in rural areas. The part played by the Council of the Society in protecting the interests of pharmacists during the war was explained in great detail, and also the provision made, and the end it was hoped to achieve, by a division of the Qualifying examination. On the question of organisation, the report of the Organisation Committee, which has already been circulated, was closely followed. Mr. Deakin was of the opinion that the need for Whitley Councils in connection with pharmacy did not exist, but believed that if there is to be a unity of demands by pharmacists, the Pharmaceutical Society should be the head. A cordial vote of thanks to the speaker was unanimously carried.

Ealing.—A meeting of the Ealing Pharmacists' Association was held at Buol's Restaurant on February 11, the President (Mr. S. McKee) in the chair. Formal business and correspondence being disposed of, Mr. Hugo Wolff (who, as the President stated, needed no introduction to the meeting) gave an address on *Current Topics and Post-war Problems*. Mr. Wolff, who at the outset asked that his remarks should be regarded in the light of a confidential chat, and not as a formal address, dealt with a variety of business problems, including Insurance work and the co-operative societies, and supplied much information on these and other topics. Considerable discussion and a volley of questions followed and Mr. Wolff was able to answer

each inquirer to mutual satisfaction. A vote of thanks to the speaker, proposed by the President, terminated the proceedings.

Halifax.—The Halifax Chemists' Association met on February 5 at the Old Cook Hotel, the President (Mr. B. C. Hodgson) in the chair. The retiring officers were re-elected for the ensuing year. Circular Letter C.L.31 was read, and also the notification of the visit of Mr. W. H. Saunders on behalf of the Proprietary Articles Trade Association, to take place on February 24. The Annual Dinner was fixed for March 13. Mr. P. W. Swire was selected as delegate to the Yorkshire Federation meeting to be held in Leeds on March 19. Mr. Gibson Dixon successfully opened a discussion on *Unprofitable Patents*, and it was felt that this matter ought to be firmly and immediately dealt with by all local Associations throughout the country. The following resolution was passed, and directed to be forwarded to the Yorkshire Federation: "That the members of the Halifax and District Chemists' Association desire to draw, most urgently, the attention of the Yorkshire Federation of Local Associations to the large number of patent medicines on the market which are at present retailed at a less profit than 20 per cent. We contend that at the least a 20 per cent. profit is essential to cover the average working expenses of the present-day pharmacy, and that 25 per cent. should be the guaranteed minimum profit on patent medicines. We further recommend that all 1s. 3d. patent medicines should be priced out at one price—viz., 11s. per doz." The following resolution was also directed to be forwarded along with the above: "That the Insurance Commissioners be asked to allot 0.5d. in respect of medicine and poison bottles, for which a statutory charge has been made and refunded, to cover the cost of cleaning and stacking of same, it being necessary to expend considerable labour on returned Insurance medicine and poison containers before such are fit for re-issue."

Hull.—The first meeting of the session of the Hull Pharmacists' Association was addressed by Mr. Clement W. Ridyard (Codnor) on the subject of *Reconstruction and Insurance Dispensing*. There was a large attendance, and Mr. A. S. Snowden presided. Mr. Ridyard urged that chemists must insist on more pay. In Derbyshire the rates were 1s. 3d. per head. They needed to abolish the rule by which when a patient was more than a mile away from a chemist the doctor could do his own dispensing. They also wanted to restrict the number of hours per day during which they were called upon to dispense Insurance prescriptions. The practice of supplying drugs at cost price should be abolished. Mr. Sellé, who proposed a vote of thanks, remarked that their remuneration was inadequate. The vote was carried. Mr. Sellé and Mr. Spilman were elected representatives of the Association on the Yorkshire Federation of Chemists.

Leeds.—A meeting of the Leeds Chemists' Association was held at the Grand Central Hotel on February 12, Mr. N. N. Armitage, President, in the chair. The President offered a hearty welcome to Mr. S. W. Woolley, editor of *THE CHEMIST AND DRUGGIST*, who read a paper entitled, "New British Industries" (see *C. & D.* February 15, p. 55). In opening the discussion which followed the paper, the President said the meeting had heard a very fine contribution. Scientific addresses were usually inclined to be rather dry, but this one, which was the most scientific paper the Association had ever enjoyed, had been highly interesting. Mr. Woolley had given them several eye-openers. The first was the fact that we actually had to go to Germany for the dye for our postage stamps. A point which had struck him was that of the manufacture of glass for laboratory uses. He had recently been speaking to his daughter, who said that even yet the British product was not quite so reliable as were the former German goods. The most important part of the paper, of course, was the latter portion. What is to be the attitude and policy of the future for chemists? The points which seemed chiefly to concern the retailer were the demands of the medical profession and the public. He felt that the medical profession was largely to blame for the former demand for these German products. (Hear, hear.) Mr. J. H. Beacock said the paper was the most interesting of its kind to which he had ever listened. Furthermore, it was a most important paper at the present time. There were one or two things on which he did not entirely agree with Mr. Woolley, but they were only on points of detail. He remembered how great a curiosity glass wool used to be in his earlier days, when he was employed in a shop at Sheffield. He thought some of it was made in England before the war, but did not know whether it was at all general. At the shop to which he referred they used to do a big scientific trade, and practically all the porcelain and glass came from Austria. Any-

thing German was much dearer. As to lanoline, he believed that some amount of this was made in Bradford before the war, in connection with the wool-trade sewage disposal. (Mr. Woolley: The Germans squeezed it out of the market long before the war.) Mr. Beacock said he fully agreed that education was the real thing which would protect us against German commercial aggression rather than Customs barriers. We must educate ourselves to face competition from all countries, many of which would have the advantage of cheaper labour; we must be educated to turn out products superior to all others. He hoped the chemists' organisations would take the lesson to heart. Mr. W. Johnson, referring to the manufacture of optical glasses, said it was strange that the great bulk of spectacle glasses still came from America. Indeed, he was told that when the war broke out the Americans bought up all the optical glass they could get in England, and the consequence was that they monopolised the trade and prices went up, and he thought something should be done in this matter. Mr. Woolley, answering Mr. Johnson, said the Americans had been accustomed to purchase English glass for the manufacture of spectacle lenses. The rough glass was sent to them before the war, and we got the lenses back. The Americans also made the rolled gold for frames, but now there is a factory in England which is turning out rolled gold for frames, and there is no reason why we should not make the spectacle lenses also. Mr. Johnson thought Mr. Woolley's paper ought to be read before the British Medical Association, to instruct the doctors not to order foreign goods when English products of equal quality were available. Mr. M. E. Murray thought the point of the whole subject lay in the paragraph referring to trade-marks and registered names. If we wished to keep the manufacture of fine chemicals in England the Government should abolish the proprietary name, which was the means which gave the Germans such a hold on England. Much of the scientific discovery of the past was really British. In chemistry we had been the pioneers, but Germany had been the commercial agent. Germany had done little original work in medicine, surgery, or fine chemicals, but she had utilised other people's brains on a commercial basis, and had flooded the markets of the world by a clever system of advertising, backed up by Government assistance, which enabled her to sell in other countries more cheaply than the native products could be obtained. If we were as wide awake to the commercial side as to the scientific side there would be no danger. We could not keep America, Germany, or any other country from the markets. The Germans would go to neutral countries and export goods from there as the product of those countries, just as they formerly had factories in England. Much of this could be avoided if the Government would make it compulsory for all chemicals to be sold under their proper scientific name. That would stop, to a great extent, the old German monopoly and anything of a similar kind which the English firms might do now. The doctors are undoubtedly to blame for the development of foreign products; the chemist has to supply what is prescribed, and if the necessary drug is made here and the doctor knows it by its proper name he would surely prescribe that. This is the main point which must be pressed home on the public, the leading societies, and on Parliament. Mr. J. Pendlebury detailed the many directions in which his company (Boots, Ltd.) had entered into the manufacture of fine chemicals and drugs, and specially mentioned the great quantities of saccharin which they now produce. The question of providing assistance for the firms who are engaged in these infant British industries, he said, is one of great importance. In many of the articles which were formerly not made in England Boots, Ltd., has established a higher standard than the Germans. Mr. S. Sheard said we as a people had been rightly termed a nation of shopkeepers, and this applies to the drug trade generally. If we had been able to buy well, and thereby been saved the trouble of making the article, we had followed the line of least resistance. The war opened our eyes to the fact that immediate gain is not always best in the long run. The story of what had been accomplished during the war is remarkable and like a fairy-tale. He thought the chemists need not be alarmed as to the future, but they must decide upon their constructive policy. Personally, he always made a thing if it is possible, though this did not always pay and is not invariably convenient. It is better for training and encouragement of knowledge. The great men of the craft have shown that good science is not incompatible with good shopkeeping. The future of the chemists is bound up in the perfecting of education; they need greater vision. Their position would shortly be revolutionised by the coming Ministry of Health. Mr. H. C. Roberts said it seemed to him that after all there would

have to be a tariff to keep out German goods; he did not see how we are otherwise to get over the question of prices. Before the war the German agent had undercut prices of particular articles on condition that the purchaser bought the whole of his requirements from that agent. If a good article were offered as a Dutch, Swiss, or Swedish product, at a price which was far below that of the British article, was it likely that the retailer, days ahead, would ask whether the thing were German or not? Mr. J. Hayes said the paper had been one of the most "meaty" he had heard, and really the question of what to do with German products is a controversial question. They had only had one side of the problem that evening; one would almost think that they in England always sit down and buy. After all, we do a considerable export trade ourselves. We should continue to accept imports, and he thought the position would simply follow the line of the best quality at the cheapest price. He did not think that even four years hence the normal person would bother where the goods came from. At the same time, we should have to safeguard our key industries—those on which other industries and national defence would depend in the future. He agreed that we must have a big enough tariff to prevent undue "dumping." We must keep an open mind, but our eye on the key industries. Mr. J. Lancaster thought the most important suggestion in the paper was that the Pharmaceutical Society, in connection with which the General Medical Council and the London University should establish facilities for drug research and physiological testing. This should be emphasised by all the members of the Society. Chemists who make their own tincture of digitalis are in great difficulty by having no testing facilities. Mr. Roberts, in moving a vote of thanks to Mr. Woolley, expressed gratification that a local association conference is to be held this year, and that it is not to be devoted entirely to insurance dispensing, of which the craft are about "fed up." Mr. Murray, in seconding, said Mr. Woolley had lightly but effectively touched on many subjects, but the paper was one which could usefully be extended to three or four times its size. The craft wanted to know about the future, and not so much about the past. Mr. Woolley, in reply, said he agreed that the paper had been one-sided, but that was because he dealt only with the new industries. The trade-mark problem is a big one. In a paper on that subject, delivered at Liverpool some time ago, he had advocated that all the trade-marks which were names of articles whose patents had expired should be taken off the Register of Trade-marks and become public property. Lanolin is a particularly bad case, because that word occurs about twenty times in the patent specifications, but the word is registered as the property of alien enemies. He thought the Association of British Chemical Manufacturers ought to establish a central fund to defray the expense of rectifying the Register of Trade-marks. The Germans took advantage of the fact that English people never like to go to law if it can be avoided.

London (E.).—A meeting of the East London Pharmacists' Association was held at Limehouse on February 5. Mr. A. R. Keith (President) in the chair. The chairman reported on the last meetings of the County Executive and Pharmaceutical Committee. It was decided not to stock new proprietaries showing a profit of less than 20 per cent. Mr. C. Goode called attention to the difficulty caused by the rush of Insurance prescriptions at the closing hour, and proposed that a circular should be sent to local doctors, suggesting that prescriptions issued after 7.50 p.m. should be marked "Urgent" if required to be dispensed the same evening. Mr. Angus seconded, and it was decided to obtain the opinion of absent members before taking action. The Chairman stated that he would receive subscriptions to the War Auxiliary Benevolent Fund. It was decided to send a donation to the funds of the Early Closing Association.

Manchester.—A meeting of the Manchester Pharmaceutical Association was held on February 12, the President (Mr. J. H. Nidd) in the chair. Mr. L. Moreton Parry, member of the Pharmaceutical Council, gave an address, entitled *Building a Better Future*, dealing with the question of reconstruction of British pharmacy. He said that all attempts up to the present had been directed to rebuilding the Society, and although the Society would always be something more than a figurehead in pharmaceutical organisation, it did not follow that it should be the whole structure. Mr. Parry referred to some of the changes at Bloomsbury Square, and then discussed the separation of dispensing and prescribing, which he was prepared to welcome, provided the interests of chemists were safeguarded. When the Ministry of Health Bill came before Parliament it would be essential for pharmacists to use

every weapon in the protection of their interests. Fortunately, we are better organised and better prepared for emergencies than ever before, and Mr. Woolcock could render invaluable services inside the House. Mr. Parry spoke hopefully of the Society's financial condition. In dealing with the Organisation Committee's report, he strongly disapproved of its being sent out before it was considered by the Council. The most valuable part of the report showed the urgency of reconstituting the Local Associations Executive as a more independent body. He did not agree with territorial representation on the Council. What is wanted is not so many delegates representing areas as capable men vitally concerned in the various interests of pharmacy. Mr. Parry then advocated the formation of a National Trade Council, suggesting that it could be formed by representatives of (1) the Pharmaceutical Society, (2) the Local Associations Executive, (3) local Associations and Pharmaceutical Committees, (4) the Proprietary Articles Trade Association and the Chemists' Defence Association, (5) wholesale and manufacturing and wholesale traders, (6) employes' trade-unions, (7) limited companies and multiple shops, (8) co-operative associations of retailers. In future, the lecturer thought, the tendency of legislation would be towards nationalisation. Pharmacy, so essential to the health of the nation, might be one of the first industries to be nationalised. That being so, pharmacists must be prepared for the change and see that the bargain is not one-sided. Mr. Parry alluded to the splendid response Manchester and Salford had made to the claims of the War Auxiliary Benevolent Fund. Mr. F. W. Bates proposed a vote of thanks to the lecturer. This was seconded by Mr. Kidd and carried unanimously.

Merthyr Tydfil.—The annual meeting of the Merthyr Chemists' Association was held on February 11, Mr. T. Jenkins (President) in the chair, when the following officers were elected for the ensuing year: *President*, Alderman R. P. Rees, J.P. (Mayor of Merthyr Tydfil); *Vice-President*, Councillor H. M. Lloyd (Deputy Mayor); *Treasurer*, Mr. J. Roberts; *Hon. Secretary*, Mr. Ivor Owen (Boots, High Street). Mr. H. M. Lloyd reported on the South Wales Federation meeting at Carmarthen, and it was resolved to invite that body to hold its next conference at Merthyr. It was also agreed to ask Mr. W. S. Glyn-Jones to be present on that occasion. A hearty vote of thanks was accorded Mr. T. Jenkins for his valuable services as President during the past year. (Biographical particulars of the new President appeared in the *C. & D.*, 1918, p. 889).

Newcastle.—A special meeting of the Newcastle-upon-Tyne Chemists' Association was held at the County Hotel on February 12, and was attended by delegates from the neighbouring Associations. Mr. T. H. Flemming occupied the chair and welcomed Mr. Currie, President of the Pharmaceutical Society, whom he warmly eulogised. Mr. Currie, in a much-appreciated address, said his policy as President was the advancement of pharmacy, though he considered that chemists in England were now in a worse state in the matter of insurance dispensing than they were on his last visit to the city some years ago. The Pharmaceutical Council's objects were twofold—to promote the progress of science and to procure efficiency of every individual connected with pharmacy. Loyalty, one to another in the Council was essential to create unity of purpose. He read extracts from an address by Mr. Hines at Liverpool, attacking Mr. Glyn-Jones as the apostle of unity, whereas at the formation of the Proprietary Articles Trade Association he was really in opposition to unity. He (the President) pointed out that the formation of the P.A.T.A. could not be done by the Council, as members not chemists were essential to it. He also referred to Mr. Wolff as a great worker who had all the enthusiasm of youth, and he was sure that when he (Mr. Wolff) had had the experience of age he would be a good man for pharmacy, as he meant well in all his efforts. Speaking of the alteration in the by-laws to enable the division of the Minor, he trusted it would be in force by August next. This would give the candidate a better chance, and would attract a better class of youth to pharmacy. He discussed the organisation suggestions, and said he favoured the Sheffield proposal that the Divisional Secretary be appointed by the local Association, and not, as now, by the Pharmaceutical Committee. He described the local Associations Executive as an independent body, not under the control of the Council. The scheme for dealing with disabled soldiers and sailors was outlined, and the speaker touched briefly on the claims of the War Auxiliary Benevolent Fund on the generosity of all those connected with pharmacy. The position of pharmacists in the Army and Navy was explained, and Mr. Currie concluded by expressing his satisfaction at having addressed the meeting, and hoped he would have another opportunity in the

future. The Chairman said they would all have appreciated the President's lucid and interesting address, and as once he would like as their Chairman to associate himself (and he felt that he was speaking their minds also) with the remarks that the President had made with reference to a speech by the Member for York at Liverpool. In the present crisis, when a member of the Council felt called upon to refer to the plea being made in furtherance of loyalty to the Society as "silly talk," and to the services of the L.A.E. as "jobbery," it was time for them to raise a protest, and it was high time for them to make their position clear upon the matter. Messrs. Wright, Atkins, Todd, Popham, Gilderdale, and Denton took part in the discussion which followed, and a vote of thanks to the President was carried by acclamation. The President was then entertained to tea, after which a most enjoyable social evening was spent, solos being contributed by the President and Messrs. Keose, Thompson, Donald, and Colston, accompanied by Sergeant A. Turnbull, R.A.M.C. The singing of "Auld Lang Syne" and the National Anthem concluded the meeting.

Public Pharmacists' Association.—The annual meeting was held at St. Bride Institute, London, on February 11. Mr. A. H. Jenkin (Member of Pharmaceutical Council) in the chair. Twelve new members were elected, and the very satisfactory annual report was adopted. The Chairman, in his address, made reference to the fact that although originally a Poor-Law Dispensers' Association, its scope had been extended to include pharmacists engaged at voluntary hospitals, dispensaries, etc., and emphasised the fact that only pharmacists may be members. In Mr. Jenkin's opinion there was an opening for a practical teacher of pharmacy as applied to bulk quantities, and this demand would grow. The Chairman invited questions, and there seemed to be no lack of those which embraced many subjects. The Pharmaceutical Society came in for adverse criticism in regard to their actions on several questions relating to public appointments in the past. In his reply Mr. Jenkin did not agree with many of the criticisms, especially from those who were not members of the Society, and urged that if reform was required every registered chemist could take a part by becoming a member and using his vote. The following officers were elected: *President*, Mr. T. H. W. Idris, J.P.; *Chairman*, Mr. A. H. Jenkin; *Secretaries*, Mr. Geo. W. Gibson (General) and Mr. R. W. Lindsey (Poor-law Section); *Council*, Messrs. Andrew and Gilliatt, Messrs. Cairns, France, Gibbons, F. W. Moore, H. Skinner, H. C. Thomas, E. E. Smith, J. L. P. Hollingworth, and Howell. The new terms of subscription are: London and district, 5s.; provincial, 2s. 6d. Inquiries should be addressed to the General Secretary at the St. Pancras South Infirmary, N.W. 1.

Southend.—A meeting of the Southend-on-Sea Association of Pharmacists was held at 167 High Street on February 13, under the chairmanship of the President, Mr. R. H. Shields, when it was agreed to hold a social evening at Boots' Café, and Messrs. Body and King were appointed to arrange the details. With reference to the proposed visit of an officer of the Proprietary Articles Trade Association to address a meeting of the Association, a letter was read from Mr. Glyn-Jones intimating that the matter would come before the next meeting of the Propaganda Committee, and suitable arrangements would follow. The Hon. Secretary was requested to communicate with the Pharmaceutical Society to invite Mr. A. H. Jenkin (member of the Pharmaceutical Council) to address a meeting of the Association at a convenient date. It was resolved to send 2l. 2s. to the Benevolent Fund. A cordial letter of thanks was read from Mr. A. J. Chater, assistant secretary of the War Auxiliary Benevolent Fund, acknowledging the receipt of 78l. 12s. 6d. collected by Messrs. Body and Holloway from Southend pharmacists and their assistants. An important communication was read from Mr. Glyn-Jones in reference to pharmacists' unsatisfactory position in the carrying out of the regulations set up to combat venereal diseases. On the proposition of Mr. Lee, seconded by Mr. Hamilton, the Secretary was requested to write the local committee pointing out the desirability of pharmacists being represented on the committee, and expressing their desire to co-operate and assist in every way, the more so as it was the expressed wish of the National Council that they should do so.

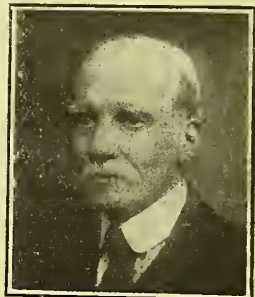
Sheffield.—The monthly meeting of the Sheffield Pharmaceutical and Chemical Society was held on February 12. Mr. H. G. Williams occupied the chair in the absence of the President (who was indisposed), and introduced Mr. Herbert Skinner to give his address entitled, *What we mean by Progressive Pharmacy*. This, said Mr. Skinner, is the gospel of action. Let us try to get away from mere assertion and reassertion, trusting that by mere repetition

we are making progress or are convincing others that progress is being made. Chemists are trained in analysis and synthesis, and each statement should be analysed, and if not satisfactory should be turned down. The fundamental question of all our lives is the economic one. Profits and salaries must both be adequate. The hours of labour must be such as will give us a chance for whatever developments we desire. There must be security of position and tenure on all reasonable lines. It is the fear of the future that saps the energy for action in the present. Apathy was one of the most dreadful things they had to face. He was pleased to see Sheffield was not apathetic. He hoped they would send London a message that they must stir themselves. Stagnation meant death. The figure was blasted because it bore leaves and no fruit. The lecturer proposed three acid tests—(1) to know the thing we want; (2) to want it badly; (3) to know the right method to get it. The administration by the Pharmaceutical Council has much improved during the last twelve months. The agenda, which used to be a small affair, now contained fifty pages of detail. He insisted on the Council doing their work and not leaving it to small committees. The phrase "Leave it to the President" had become a joke. Mr. Skinner discussed the alteration of the examinations, and thought the Major would have to deal with special subjects for the public service to justify its existence. Pharmacy should be consolidated for the interests of pharmacy; prices should be arranged, and no cutting. The profits may appear large on individual articles, but be small on the whole. The unqualified traders were five or six to one of the qualified, the wholesale and the retail. Mr. C. A. Hill had said that pharmacy does not possess adequate machinery for urging its claims upon the Government. There are 16,000 chemists on the Register, but outside that number, and including the makers of galenicals, there are 100,000 in wholesale pharmacy. A public council has been recommended, on which every side should receive proportionate representation. The linking up of the wholesale and retail has been repeatedly advocated, and the refusal to supply the unqualified trader. Having understood the three acid tests, the future is ours if we apply our imaginations to the task. Before we can reconstruct effectively it is necessary to destroy wisely. The central temple may be all right, but some of the outbuildings are decidedly rickety and moss-grown. The true critic is a friend and not an enemy, and if we treat him with good will and good temper we shall the sooner gain true light. The Chairman, in opening the discussion, said that if the war had taught us anything it was that the long hours for chemists are unnecessary. He would like to see apprentices take one subject for the Qualifying examination during each year of apprenticeship. Several members joined in the discussion, and a hearty vote of thanks was given to Mr. Skinner, who, in reply, said he was strongly in favour of the Society taking a positive interest in apprentices. He was also of opinion that two or three paid organisers should be engaged. As a simple business proposition they would justify their existence by the increase in the membership of the Society.

Stoke-on-Trent.—A general meeting open to all chemists was held by the North Staffs Chemists' Association at the Town Hall, Stoke, on February 13, to give pharmacists an opportunity of meeting Mr. W. S. Glyn-Jones, secretary and registrar of the Pharmaceutical Society. Mr. Roland Prince (Longton), President N.S.C.A., presided. Mr. Glyn-Jones was asked to speak on *Demobilisation*, and explained the principles on which men were released for pharmacy, and the effect of the war on the studies of apprentices. In reply to a question, he said he did not think there was any danger of pharmacists losing the title "chemist." In strict law the chemist and druggist was the only person allowed to use this title. The powerful company chemists were even more interested in keeping this title than the individual pharmacist, for they had no other. Further questions were answered, and, speaking of educational matters, Mr. Glyn-Jones said that they looked to the Associations to make the necessary local arrangements. The divided Minor meant that a higher standard would be demanded: they ought not to expect a lower standard than that of the Conjoint Medical Board. Here he complimented the Associations of the country on the excellent work done by them in regard to recruiting. It was work they could not do at headquarters; the local Associations knew who could be spared and who could not. It was difficult and unpleasant work, but had been done most efficiently. The speaker also said that personally he did not favour compulsory membership of the Pharmaceutical Society. He thought that the merits of the Society should be sufficient to cause every chemist worth having to become a member. The policy of the Society was now against over-centralisation; he would like every local Association to be a branch of the Pharmaceutical

Society, and every member to be a M.P.S. Other matters spoken of were pharmacy representation on the Insurance Commission, the doctor and the pharmacist in rural areas, pharmacy in the Army and Navy, and the future of pharmacy. A vote of thanks was accorded to Mr. Glyn-Jones.

West Ham.—The fourteenth annual dinner of the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists was held at Anderton's Hotel, London, E.C., on February 13. Mr. C. A. Jones (President) in the chair. The tables were crowded, and the evident enjoyment of the guests was a welcome reminder of the brighter circumstances in which they were meeting. Among the visitors were Sir Richard Winfrey, M.P., Mr. W. L. Currie (President of the Pharmaceutical Society of Great Britain), Mr. A. J. Gay (Chairman of the West Ham Insurance Committee), Dr. W. Lauzun Brown, Mr. Herbert Skinner (President of the Middlesex Pharmaceutical Association), Mr. H. R. Procter, and Mr. J. P. Gilmour. The wholesale houses sent a strong contingent, those represented including Parke, Davis & Co. (Mr. G. P. Forrester), Thomas Hodgkinson, Prestons & King (Mr. T. Soarlett), The British Drug Houses, Ltd. (Mr. E. Sibley and Mr. T. Sibley), Burgoyne, Burbidge & Co., Ltd., T. F. Bristow & Co., Ltd., Arthur Berton, Ltd., and Meggeson & Co., Ltd. An excellent dinner having been served, the toast of "The King" was honoured in the customary manner. A musical programme of reasonable proportions formed an agreeable setting for the speeches, which, without exception, were in just the right tone for a festive occasion. Mr. J. H. Matthews (Chairman of the Essex Pharmaceutical Committee) opened the toast-list with "The House of Commons," drily explaining that he was selected for the duty because he was the only member of the Association capable of making a short speech. Sir Richard Winfrey, who is no stranger at these gatherings, responded with a delightful mixture of wit and wisdom. He playfully alluded to the younger members of Parliament who should have been present (and were not), saying that when they had been longer in the House they would not be so much in awe of a three-line whip. Dealing with the war conditions of pharmacy, he succeeded in deriving excellent fun from the fact that Epsom salts had risen to 30s. a hundredweight. The mention of this staple chemical led to a reminiscence of the late Sir William Gull, one of whose favourite prescriptions began, "Mag. sulph. ʒijj." Concluding with a reference to the projected Ministry of Health, he announced his intention of pressing forward a clause to prevent doctors from dispensing. The Association's Vice-President and Secretary (Mr. Alexander Catto), in a thoughtful speech, proposed "The Pharmaceutical Society"; and Mr. Currie (who was wearing his chain of office) expressed, in reply, his pleasure at being present for the first time at a festive gathering in London. He confessed that he found the Council "a tough team to drive," but added that he believed that its members were settling down. The speech was not Mr. Currie's only contribution to the programme of the evening; greatly to the delight of his audience, he gave, later, an "extra turn" in the form of a patriotic song, with an hilarious trifle, "Phil the Fluter's Ball," as an encore. Before this interlude was reached, "The Medical Profession" had been proposed by Mr. W. Potter. The reply of Dr. Lauzun Brown was entirely sympathetic. He reminded his hearers that during the war the civilian public had lacked nothing either on the medical or the pharmaceutical side, and gave some interesting statistics showing the remarkable advance in preventive treatment. "The West Ham Insurance Committee," proposed by Mr. J. E. Evans, evoked a cordial reply from Mr. A. J. Gay, the Chairman of that Committee, noteworthy for the sincere tribute he paid to the pharmacists of the district for their share in the administration of the Insurance Acts. "The West Ham and District Association of Pharmacists," proposed by Mr. Gilmour (in the absence of Mr. W. J. U. Woolcock, M.P.), was briefly acknowledged by the Chairman, who took the opportunity of recalling the untiring enthusiasm of the late Mr. James Kirkpatrick. The final toast, "The Visitors," proposed by Mr. F. W. Gwinn, was replied to by Mr. Skinner. A collection for the Benevolent Fund taken during the evening amounted to 2l. 15s. 6d.



Mr. C. A. JONES.

Pre-war Imports of Chemicals and Drugs.

THE "Board of Trade Journal" (February 6) contains an interesting analysis of pre-war (1913) imports of chemicals and drugs. This is given in considerably more detail than the statement published in the monthly Returns, and shows the imports from Germany and the other principal sources of supply. The analysis of the items comprises (1) potash compounds, other sorts; (2) soda compounds, other sorts; (3) chemical manufactures and products, unenumerated; and (4) drugs, unenumerated. The principal results of this analysis are given in a series of tables, and we select a few of the most interesting items:

	Total Imports in 1913.	Of which	
		Imports from Germany.	Other Principal Sources of Supply.

Potassium and Sodium Salts, etc.

	£	£	£	U.S.A.
Potassium bromide ...	8,708	7,909	799	U.S.A.
" carbonate ...	108,550	33,909	53,499	Russia.
" chlorate... ..	26,324	2,101	10,315	France.
" cyanide... ..	10,342	9,763	14,020	France.
" iodide ...	41,217	10,351	6,595	Sweden.
" perchlor. ...	5,122	—	3,880	Sweden.
" permang. ...	7,715	7,451	1,242	France.
" phenylglycine ...	38,832	38,832	—	—
" prussiate ...	34,289	14,781	15,201	France.
Sodium acetate ...	14,487	6,388	3,244	Belgium.
" chrom. and bichrom. ...	20,730	20,549	4,645	Belgium.
" chlorate ...	19,716	642	2,030	U.S.A.
" glyceroph. ...	5,776	5,716	14,614	France.
" hydrosulph. ...	26,361	16,377	3,414	Spain.
" hyposulph. ...	7,128	7,122	9,930	France.
" nitrite ...	10,067	1,158	5,406	Norway.
" perborate ...	6,222	6,222	2,957	France.
" phosphate ...	9,591	6,183	3,096	Belgium.
" salicylate ...	16,147	15,264	845	France.

Heavy and Fine Chemicals.

Arsenic	40,741	3,230	13,146	Belgium.
Boric acid and powder ...	51,115	1,154	8,447	Australia.
Bromine and compounds ...	12,380	12,380	8,402	Portugal.
Camphor	105,669	1,556	9,966	France.
Citric acid	23,161	10,787	32,274	France.
Copper oxide	25,711	24,768	14,316	Italy.
Formaldehyde	9,449	6,509	—	—
Formic acid	42,949	35,028	101,616	Japan.
Iodine	80,432	465	6,475	France.
Lactic acid	13,809	10,910	4,578	Italy.
Lead, acetate	29,398	15,861	2,137	Netherlands.
Magnesium chloride ...	25,656	25,559	7,536	Netherlands.
Oxalic acid	27,083	18,166	70,703	Chile.
Photographic chemicals ...	12,140	11,948	8,064	Peru.
Salicylic acid	10,621	10,293	2,631	Netherlands.
Silver nitrate	29,031	2,587	9,057	Netherlands.
Thorium nitrate	41,544	23,078	—	—
Albulactin	7,074	7,074	1,887	Norway.
Aspirin	19,799	19,677	—	—
Epsom salt	8,602	6,534	983	Belgium.
Hemoglobin	6,624	64	6,543	Switzerland.
Magnesia	18,055	10,741	3,872	U.S.A.
Eucalyptus oil	37,855	528	33,821	Australia.
Proprietary articles:				
Patent medicines ...	172,519	77,435	90,225	U.S.A.
Emulsions... ..	39,563	—	39,447	U.S.A.
Liniments	10,439	—	10,439	U.S.A.
Ointments	19,482	12	19,438	U.S.A.
Pills	6,993	1,146	1,900	U.S.A.
Plasters	26,910	1,294	3,540	France.
Papain	6,756	27	25,493	U.S.A.
Pepsin	5,679	538	6,446	Ceylon.
Phenacetin	7,951	6,183	5,011	U.S.A.
Salvarsan and neo-salvarsan	11,383	11,383	1,349	Switzerland.
Milk sugar	16,226	7,160	6,526	Netherlands.
Tartar emetic	5,057	4,766	240	Belgium.

	Total Imports in 1913.	Of which	
		Imports from Germany.	Other Principal Sources of Supply.

Crude Drugs.

	£	£	£	
Aloes	18,424	365	13,034	Cape.
Anise	14,206	835	2,712	U.S.A.
Asafetida	5,072	—	8,712	Russia.
Balsams	12,052	3,161	2,294	France.
Calabar beans	5,504	216	3,430	Persia.
Cardamoms	47,939	339	1,256	U.S.A.
Coca leaves and powder ...	5,873	—	3,304	U.S.A.
Cod liver oil	101,044	501	1,989	Brazil.
Ergot of rye	15,846	3,280	5,231	Sierra Leone
Penugreek seed	18,336	38	35,323	Ceylon.
Herbs, unspecified	18,935	5,092	3,125	Java.
Gentian	5,508	50	2,025	Ceylon.
Ipecacuanha... ..	33,675	3,695	88,985	Norway.
Licorice (incl. powder and sticks)	8,199	738	7,651	Netherlands.
Menthol	63,108	3,128	5,945	Russia.
Orris	6,303	—	2,664	Spain.
Rhubarb	11,287	198	6,747	Egypt.
Sarsaparilla	10,882	163	5,499	Turkey in Asia.
Senega	8,373	1,636	4,789	Moreoco.
Sandalwood... ..	5,436	8	5,662	France.
Senna	17,384	189	5,069	Japan.
			5,084	France.
			12,651	Uruguay.
			5,696	Brazil.
			2,816	France.
			1,635	Italy.
			1,077	Turkey in Asia.
			56,306	Japan.
			2,200	France.
			3,516	Moreoco.
			2,868	Italy.
			10,572	China.
			6,927	Panama.
			2,055	Br. West Indies.
			3,982	U.S.A.
			2,755	Canada.
			5,428	Netherlands.
			13,132	Br. India.
			3,254	Egypt.

This is the first occasion we have seen so detailed an analysis of our imports, but the fact that the values alone are given and not quantities as well robs the analysis of much of its value. It is important to note, however, that the values are based on pre-war prices, so that an indication of the approximate quantity imported of any individual item can be ascertained. The prominent part played by Germany in these imports needs no emphasis, and may be compared with an article we published in the *C. & D.* of March 14, 1914 (p. 88), giving details of the German export trade in chemical and medicinal products. The Board of Trade tables, however, give further particulars which are of considerable interest to British chemical manufacturers for future reference.

More Tales of Oenophus.

XI.—Ye Probleme of Ye Serf.

Ye Grete Warre brote Manye Thynges inne Itte's Trayne, butte none soe disturbynge as ye Attitude of ye Serf.

For ye Commone People hadde Realysed Their Importance and alle was notte welle with ye Erstwhyle Toppe Dogges.

It lookt as though Shekels inne Greter abundance than Before woulde have to be Disburst to Gette Thynges Done.

Even soe in ye Placide Realme of Drogerrie ye Strene of Docile Contente was rippelt by Waveletts of Worrie. Banditts, smellynge of aloe and asafetida and redolente of ye cavernes and Wette Counters of Druggdome, invaded ye precyentes of even Bluhmsbre ye Blest.

Soe ye Knightlie Jesse to forestalle ye Floode showered Largesse on hys Trybe. Whereat ye Majores and Mynores who hadde bene Wynnynge ye Warre by Scrubbynge Floores in ye Encampmentes of ye Allied Hostes tooke Herte of Grace and clamored for Demobylisatione.

Butte ye Meke Retayler who hadde bene Carrynge Onne in ye Hope of Better Tymes coulde dyscovere notte e'en ye Halfe of a Pennie per Skripte Extra wherewith to Paye ye Pypen.

Yette some Farmazootick Grayne muste of a Suretie have bene garnered.

Trade Report.

42 Cannon Street, E.C. 4, February 20, 3 p.m.

A SLIGHTLY improved business tone is reported this week, but the buying is chiefly hand to mouth, and there is keen competition for the small orders. This has resulted in prices of many so-called fine chemicals being depressed altogether beyond reasonable limits, but this process cannot continue indefinitely, especially as stocks of many items are becoming low. Dealers should exercise a little more caution in cutting prices, especially as in many instances they are accompanied with heavy losses, and spot values of several products are below the parity of the prices they can be bought at abroad. The United States seems to have set the pace in slashing prices, fierce competition resulting, especially in salicylates, aspirin, acetanilide, and benzoates, which are again cheaper. Bromides continue weak and unsettled. Other reductions in this group of chemicals include barbitone, chloral hydrate, guaiacol carbonate, lithia carbonate, phenacetin, and phenolphthalein. Acetic acid and soda hyposulphite are lower. English camphor flowers are 3d. dearer; Japanese slabs have been in good demand for export at a rapid rise. American peppermint oil has sharply advanced in the United States, and Japanese oil of mint declined but recovered, a good business having been done. Lemon oil is dearer, bergamot and star anise being easier. Ergot is very firm; gentian is easier; canary seed is also easier, and cumin and fenugreek seeds are lower. Honey slow of sale. Farina, Japanese vegetable wax, and arsenic are lower.

Higher	Firmer	Easier	Lower
Camphor (Eng. ref.)	Black-haw bark	Acetanilide	Acetic acid
Camphor (Jap. ref.)	Citric acid	Agar-agar	Arsenic
Lemon oil (c.i.i.)	Hexamine	Almond oil, essent.	Balsam tolu
Mint oil (Jap.)	Pimento	Anise oil, star	Barbitone
Peppermint oil (Amer.)	Serpentary	Aspirin	Benzoic acid
		Bergamot oil	Camphor
		Bromides	monobrom.
		Cadmium	Castor oil
		Canary-seed	(med.)
		Cinebonine	Chloral hydrate
		sulph.	Copper sulphate
		Gentian	Cumin seed
		Lime oil (W.I.)	Farina (Jap.)
		Pepper, black (Sing.)	Fenugreek-seed
		Phenol-phthalein	Ginger
		Potash carbonate	Guaiacol carb.
		Vanillin	Hydroquinone
			Lithia carb.
			Methyl salicylate
			Phenacetin
			Pot. permang.
			Safrol
			Salicylic acid
			Soda benzoate
			Soda hyposulphite
			Wax, veget.
			(Jap.)
			Wood oil (Ch.)
			Worm-seed oil

Cablegram.

NEW YORK, February 19.—Business in chemicals and drugs is good. Peppermint oil in tins has advanced to \$7.25 per lb.—a rise of \$1.75. Menthol is 10c. per lb. lower at \$5.65, and Curaçao aloes in cases has declined to 8c. Salicylates are lower; salicylic acid is now offering at 55c., sodium salicylate at 60c., methyl salicylate (synthetic oil of wintergreen) at 60c., and salol at \$1.5 per lb.

ACETANILIDE.—Eagerness on the part of America to make sales has depreciated the spot price to 3s. to 3s. 3d., but there has been very little response, although the chemical is now very cheap.

ACETIC ACID is lower, glacial on the spot offering at 110l. to 115l. per ton, and 80 per cent. pure at 90l.; to come forward, both descriptions are offered at appreciably lower prices.

AGAR-AGAR is dull of sale, with No. 1 Kobe strip offering on the spot at 2s. 3d. to 2s. 6d. per lb., as to seller.

ALBUMEN.—The embargo on the import of albumen, egg yolk, and dried eggs into Holland and Sweden has now been raised. Applications for export from the United Kingdom will be freely granted subject to the production of the usual guarantees against re-export until such times as the quantities which may be imported by those countries

have been reached. [This news will be welcome to Mincing Lane importers and dealers who hold large stocks. Prior to the war, trading in albumen and dried egg products was almost exclusively a German monopoly owing to their "peaceful penetration" in China.]

AMIDOPYRIN.—It is not anticipated that the scarcity will continue much longer, and the present inflated price will be appreciably lower.

ANISE is quoted 77s. 6d. per cwt. for Russian and 90s. for Spanish.

ANISE OIL, STAR, is easier, with spot sellers of "Red Ship" brand at 4s. 6d., and to arrive at 4s. 3d. per lb. c.i.f.

ANTIMONY.—Slackness of demand and the continuous desire to get rid of old stocks keep the tendency on the easy side. Some little business has been done in foreign regulus at prices ranging down to 40l., but c.i.f. transactions either in regulus or crude are practically impossible to home ports since import facilities are withheld. Crude on the spot is quite nominal at about 40l. to 35l. Whatever may be the effect of the curtailment of mining operations in China and elsewhere, the tendency of prices seems towards further weakening.

ARSENIC.—The quotation for small parcels of best white English powdered, in 3-cwt. to 4-cwt. casks, for druggists' purposes, is 35l. per ton. As regards merchant trading, we are informed on good authority that, after showing some little resistance on a temporarily improved demand at around 70l. for best white powder, the market seems once again to have gone to pieces. Relatively low figures appear to have been accepted in some quarters in order to clear surplus lots recently arrived on consignment from abroad. Quotations are widely divergent, this indicating the distinctly weaker feeling. It is reported that business has been done this week down to about 60l. for fair-sized lots of foreign material, and the market ranges from 65l. to 60l. delivered London, according to material. The demand is slack, while fair quantities of American, African, and other descriptions are waiting for disposal. American competition appears to be increasing, and it would cause no surprise to see prices settling down to a much lower level in the near future, although the depreciation from the extreme highest figure recorded at one period last year already represents fully 90l. a ton.

ASPIRIN.—English makers maintain their prices, but American make is obtainable at 11s. per lb. on the spot, and appreciably less to come forward. In view of the cost of acetic anhydride it is difficult to see what profit there is at present rates. The War Trade Department has issued an open general licence which permits the export to all non-enemy destinations. It is therefore unnecessary to make application to the War Trade Department in respect of aspirin.

BALSAM TOLU is available at the cheaper rate of 6s. 9d. per lb. net on spot.

BARBITONE.—A new Continental maker has entered the field, and as competition is keen for business the price has receded to 75s., and will go lower.

BLEACHING-POWDER is steady at 13l. 10s. per ton in casks in contract quantities.

BROMIDES remain in an unsatisfactory position from a seller's point of view, buyers having no confidence, and restrict their purchases accordingly. Spot parcels of potash can be bought at 3s. for granular, ammonia offering at 3s. to 3s. 3d. and sodium at 2s. 9d. It must be pointed out that the chief production in the United States is practically in the hands of one concern, and as prices have now receded to such a low level, the change when it does take place will be sudden, while the present rates must leave the makers a narrow margin of profit.

CADMIUM.—With a slow demand and a little more offering quotations have yielded notably, and range from about 7s. 6d. to 7s. 9d. per lb.

CAMPBOM MONOBROM. is offered at from 12s. to 12s. 6d. per lb. net.

CAMPBOM (REFINED).—Japanese is dearer, owing to the fact that export licences to France have been more freely granted, and a good spot business has been done in slabs at from 6s. 10½d. to 7s. 6d. per lb. The English refiners have advanced their prices by 3d. per lb., quoting flowers at 7s. and tablets at 7s. 6d. to 7s. 9d. Bells are unobtainable. We understand that a large quantity of Japanese slabs have been recently sold for shipment to America from this side, and in turn America is now exporting to the Scandinavian markets, whereas London agents who also had orders for the Scandinavian markets were until recently refused licences. Now that America has done the business there is a change in the attitude of the War Trade Department, and licences are being granted; but it is too late, and buyers here have missed their market.

CANARY-SEED is easier at 275s. to 280s. per quarter for ordinary to good Morocco and 295s. to 300s. for Spanish.

CARAWAY-SEED is unchanged at 220s. per cwt. for natural Tunis.

CASTOR OIL of English make has been reduced to 83 $\frac{1}{2}$ per ton for medicinal quality.

CHLORAL HYDRATE.—Owing to lack of demand prices are sagging, and the price of duty-paid crystals has receded to 8s. 9d. to 8s. 6d. per lb.

CINCHONINE SULPHATE is offered at the easier rate of 1s. 6d. per oz. net.

CITRIC ACID is inclined to be firmer at 4s. 7d., though it is possible to find an occasional seller at 4s. 6d.

CLOVES are quiet, with sellers of fair Zanzibar on the spot at 1s. 1d., and to arrive, March-April shipment, at 11 $\frac{1}{2}$ d. to 1s. c.i.f. d.w.

COCAINE is unchanged, with hydrochloride offering at about 42s. 6d. per oz.

COD-LIVER OIL.—The prospects for the resumption of business relations between Norwegian makers and agents in this country remains poor, and the situation is likely to continue abnormal.

COPPER SULPHATE.—There is a continuous unsettlement in the absence of any demand worth mentioning for export, and the tone is easy, with prices f.o.b. Liverpool quite nominal at about 48 $\frac{1}{2}$ per ton. The American exports from January to October were 6,733 tons, against 12,988 tons for the whole of 1917.

CORIANDEER-SEED.—There is very little demand, but quotations are unaltered at 27s. 6d. to 30s. per cwt. for fair to good Morocco.

CREAM OF TARTAR remains dull of sale at 350s. per cwt. on the spot.

CREOSOTE (BEECHWOOD) is offered at from 13s. 6d. to 14s. 6d. per lb. net.

CUMIN-SEED is lower at 47s. 6d. to 50s. per cwt. for ordinary to good Morocco.

DILL-SEED.—In the absence of business the quotation is nominal at 45s. per cwt.

ERGOT remains firm, Spanish on the spot selling at from 7s. 6d. to 8s. per lb., as to quality. Spain appears to have nothing to ship, and nothing is coming from Russia.

EUCALYPTUS OIL.—Good brands in sound packages on the spot are quoted at 3s. 9d. per lb., and oil in leaky tins can be bought at less; buyers require to exercise discrimination.

FABRINA shows a further decline, Japanese No. 1 offering on the spot at 34s. per cwt., and January-March has been sold at 32s. to 30s. c.i.f. Sweet is also lower at 33s. spot.

FENNEL-SEED.—The quotation remains 50s. per cwt., without business.

FENUGREEK-SEED is lower, with a good business at 15s. per cwt.

FORMALDEHYDE.—As previously reported, the Government contract ceases on March 1. As the price has recently risen in U.S., following on the improvement in methyl alcohol, the maximum price of 150 $\frac{1}{2}$ per ton is no longer regarded as excessive.

GENTIAN is quiet, with spot sellers at 70s. per cwt.

GINGER remains quiet, the spot sales including washed rough Cochín at 95s. to 100s. per cwt.; rough Calicut is 85s., Jamaica 120s. to 140s., Japanese 65s., and Sierra Leone 75s. per cwt. Prices were lower at auction, 170 bags Japanese selling without reserve at from 57s. 6d. to 65s. for fair limed.

GLUCOSE.—Liquid on the spot is quoted at 60s. per cwt., early March at 57s. 6d., end of March 50s., and April-May 42s. 6d. spot terms.

GLYCERIN.—The quotation from refiners for double distilled, s.g. 1.260, in ton quantities in 10-cwt. drums charged and returnable, is 113s. 6d. per cwt., and in tins and cases (free) 130s. 6d. per cwt. There is, of course, the usual reduction for 5-ton lots.

GUAIACOL CARBONATE.—An appreciable reduction has taken place, with sellers at 62s. 6d. Stocks are heavy on spot, and export business is awaited.

HELIOTROPIN is quoted at from 26s. to 28s. per lb., as to seller.

HEXAMINE is appreciably firmer, from 6s. to 5s. 9d. being now quoted on the spot.

HONEY meets with a slow sale on the basis of last week's auction prices, the chief demand being for Californian and Cuban. Licences will be granted for the export of 25 per cent. of the honey in the United Kingdom. Figures of holdings should be forwarded immediately to the War Trade Department, in order that the quantities for which licences are to be granted to individual firms may be determined. This decision will be welcome to the holders of spot stocks, which are considerably more than the requirements for home consumption.

HYDROQUINONE.—Demand is reviving; spot holders ask 13s. to 12s. 6d.

LEMON OIL.—Higher prices have been cabled from Sicily this week, quotations ranging from 5s. 2d. to 5s. 6d. per lb. c.i.f.; spot prices are from 5s. 6d. to 6s. for good brands.

LIQUORICE-ROOT.—Natural Sicilian cut is offered at 95s. and decorticated at, from 160s. to 170s.

LITHIA CARBONATE.—Owing to the arrival of consignments, the price has receded to 10s. per lb.

LYCOPodium.—Sellers ask 6s. 3d., which appears to be too high to permit of business.

MENTHOL is steady but quiet, with sellers of Kobayashi-Suzuki at 19s. 9d. per lb. on the spot, and buyers at 19s. 7 $\frac{1}{2}$ d.

METHYL SALICYLATE has declined to 4s. per lb. on the spot, which price ought to attract buyers, having regard to the position of methyl alcohol in the U.S.A. At the moment, however, American makers of salicylic preparations are slashing prices.

MILK-SUGAR.—The Government price is still maintained at 2s. 6d., but this quotation can be shaded by several pence by second-hand holders. We understand that one of the British Colonies is anxious to resume its shipments to this country, and is offering at considerable less than the Government price, but licences to import have been refused, although the quality is equal, if not superior, to much of the purchases held by the Government, who in their recent anxiety to secure stocks in the U.S.A. bought without discrimination of quality.

MINT OIL.—A good business has been done in Japanese dementolised down to 4s., but the market subsequently recovered to 4s. 6d. spot for Kobayashi-Suzuki. The prospects of an improvement in the confectionery trade has led to increased buying, and some look for a still further advance.

MOLASSES.—The official fixed price for molasses for manufacturing purposes only is 45s., and for cattle feeding and distilling 15s. per cwt. in bond. All restrictions limiting the importation and sale of syrup, molasses and other articles of like nature and use, will be removed on and after Monday, February 24, 1919. From February 17 next molasses will be sold to manufacturers and wholesale dealers for cattle-feeding purposes at 15 $\frac{1}{2}$ per ton ex tanks in bulk for home manufactured and 15 $\frac{1}{2}$ per ton in bulk c.i.f. for imported.

OILS (ESSENTIAL).—The following are current quotations: Ceylon *Citronella*, 3s. 2d. to 3s. 3d. Java, 5s. per lb. *Lemon-grass*, 6d. per oz. *Cassia*, 80 to 85 per cent., 7s. 6d.; 70 to 75 per cent., 7s. 4d. Bourbon *Geranium*, 25s. 6d. spot, and 25s. c.i.f. *Juniper berry*, 32s. 6d.; *wood*, 8s. 9d. *Caraway*, rectified, 21s. 6d. *Almond*, essential, s.a.p., 47s. 6d. per lb. *Eucalyptus*, B.P., 3s. 6d. to 3s. 8d. *Bergamot*, 38 per cent. esters, 24s. spot. *Lemon*, 5s. 3d. spot, and 5s. to 5s. 2d. c.i.f. Sicilian sweet *Orange*, 12s. 6d. per lb. *Clove*, 11s. 6d. spot. *Bois de Rose Femelle*, 18s. spot. French *Spike Lavender*, 5s. spot.

PEPPER.—Black Singapore is a trifle easier on the spot, with sellers of fair at 11 $\frac{1}{2}$ d. To arrive, February-March steamer, 10 $\frac{1}{2}$ d. c.i.f. d.w. is quoted. Fair Tellicherry on the spot is 10 $\frac{1}{2}$ d. sellers and Aleppy 9 $\frac{1}{2}$ d. White Muntok on the spot is offered at 1s. 2d. to 1s. 3d., and to arrive, February-March steamer, 1s. 1d. c.i.f. d.w. Singapore on the spot quoted at 1s. 3d. For shipment January-March steamer 1s. 1 $\frac{1}{2}$ d. sellers c.i.f. d.w.

PEPPERMINT OIL.—Our New York cable indicates a rise of practically 5s. per lb., which has taken buyers on this market unawares, and spot holders are asking 30s. to 32s. 6d. The New York price is equivalent to 35s. landed in London; H.G.H. is nominal. Referring to the peppermint oil offered in auction last week (*C. & D.*, February 15), a firm of solicitors, writing on behalf of Salomon and Seaber, whose analytical report was quoted, informs us that their clients were unaware of the geographical source of the oil which they received for analysis in the ordinary course of business. They wish to make it clear that the analysts were not parties to any attempt to mislead the trade.

PHENACETIN.—Owing to lower offers emanating from the U.S. spot holders have reduced their prices, quoting 12s. 6d. to 12s. per lb.

PHENAZONE.—Stocks are still very small, and 55s. per lb. is willingly paid.

PHENOLPHTHALEIN.—Owing to raw material being more plentiful the price has eased to about 30s. per lb.

PIMENTO is firmer, with spot sales up to 4d. per lb. and sellers.

POTASH CARBONATE is easier, 80 to 85 per cent. offering at 115 $\frac{1}{2}$ per ton.

POTASH PERMANGANATE.—American make of B.P. quality is obtainable from stock at 6s. to 6s. 6d., and English is 5s. to 6s. per lb.

PYROGALLIC ACID remains steady, resublimed offering at 16s. 6d. to 17s. and crystals at 13s. 6d.

SACCHARIN is a dead letter with sellers at from 145s. to 160s. per lb., duty paid, for American 550. The fact that

the Royal Commission on Sugar Supply recently allowed the dumping of a considerable quantity of American saccharin has quite upset the calculations of British makers and put a curb on their operations. As a fact, this error on the part of the Royal Commission has led to that body inviting tenders from consumers and others.

SAPROL is offered at the cheaper rate of 4s. 3d. per lb. net on spot.

SALICYLATES.—A further reduction has been made by the American makers, but the English makers' price of salicylic acid is actually on a lower basis than the American, as it can be bought freely at 2s. 6d., and contracts will be taken at less. Soda salicylate, on the other hand, has not fallen so much, and 4s. is still obtainable for B.P. or U.S.P. powder.

[Our New York cable reports a further cut in prices by American makers. The largely augmented supplies of ear-bolic acid at a lower figure and a considerable reduction in the demand account for the decline.]

SALOL is obtainable at 6s. 6d. on the spot, but is likely to ease in view of the decline in U.S.

SODA HYPOSULPHITE has declined considerably, pea crystals in kegs offering at 30d. per ton.

SULPHONAL.—A consignment has arrived; prices are maintained at from 135s. to 136s.

SYRUP and liquid glucose are officially quoted at 58s. to 66s. per cwt., less 3 per cent., according to package, the lowest price being for puncheons of 11 cwt. or more (but not exceeding 14 cwt.), the highest for drums of from 14 lb. to 112 lb. capacity; in tins 80s., less 5 per cent.; for retail sale 10d. per lb. loose, and 10½d. per lb. in containers.

TERPIN HYDRATE is offered at from 2s. 10d. to 3s. 3d. per lb., as to quantity.

VANILLIN varies from 49s. to 52s. 6d. per lb., according to seller. An improvement in the demand is expected shortly, with the revival in the confectionery trade.

WAX, VEGETABLE, is slow of sale, with spot sellers of good squares at 70s. per cwt.

WILD-CHERRY BARK.—Stocks have been practically cleared out of the New York market as a result of the abnormally heavy demands brought on by the influenza epidemic.

WOOD OIL.—Chinese is offered at 105s. per cwt. net in barrels on the spot, ex wharf.

Norwegian Cod-liver Oil.

M. S. JOHANNESSEN, the Secretary of the Norwegian Government Department, in "Bergens Tidende" of February 8, 1919, refers to the issue of that newspaper of January 31, 1919, which contained an abstract of the article dealing with the state of the cod-liver oil market which appeared in THE CHEMIST AND DRUGGIST of December 14, 1918 (Index Folio 1004). He writes as follows: "In the same number of 'Bergens Tidende' there appeared an extract from the English trade journal THE CHEMIST AND DRUGGIST, in which the Norwegian Government was accused of having enhanced the price of cod-liver oil, and also of having taken advantage of the British Government to its own profit in many ways. First and foremost I must state that the Government fish central has not, and never has had, anything to do with the buying and selling of cod-liver oil. As 'Bergens Tidende' comments, the remarks made by THE CHEMIST AND DRUGGIST are in such good taste that I am compelled to mention the fact that, according to the Norwegian-British fish agreement, up to October 15, 1918, Norway did not even have the right to sell on its own account fish oil or cod-liver oil to Great Britain. According to the fish agreement, it was Great Britain herself who bought all the fish oil, at maximum prices fixed by the same agreement, consequently under Great Britain's co-operation. These purchases were effected by the British Purchasing Agency in Norway, which, *inter alia*, granted the privilege to export not more than 15 per cent. of fish oil from Norway to the Central Powers. This British Purchasing Agency has held the export monopoly, and enforced the aforesaid maximum prices, for cod-liver oil and all kinds of fish oils until October 15, 1918. After that date no supplies of cod-liver oil have been either sold or offered by Norway to Great Britain. The high prices for cod-liver oil ruling on the English market, and commented upon by THE CHEMIST AND DRUGGIST, are in this case in no way due to any Norwegian act, either by the Government or by private individuals." Further on Mr. Johannessen mentions, with reference to the high prices demanded in England for cod-liver oil (quoted by the C. & D.), that now there is a movement on foot among the cod-liver oil producers and fishermen of Lofoten to raise the existing maximum prices by 100 per cent., from kroner 2.50 to kroner 5 per kilogram—that is to say, about kroner 540 per barrel, and also that the claim was made that the Government should guarantee this price.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Manufacture of Saccharin.

SIR,—We notice that in the paper read before the Leeds Chemists' Association on February 12 the Cooper Laboratory and Boots Pure Drug Co., Ltd., were mentioned as being manufacturers of saccharin, and it would be inferred that these were the only manufacturers of saccharin in this country. We believe our company was the first to approach the Board of Trade with plans for the manufacture of saccharin, and we are producing on a very large scale. It is only fair, therefore, that the erroneous impression likely to be created by the paper referred to should be corrected, and we shall be obliged if you will publish the necessary additional information.—Yours faithfully,

For the British Saccharin Manufacturing Co., Ltd.

J. A. HARDING, Manager.

Baxenden, nr. Accrington.

An Assistants' Examination Wanted.

SIR,—I do not think that pharmacists need get unduly alarmed at the reference made by "Xrayser II." with regard to the rumoured conference between representatives of the Pharmaceutical Society and the Association of Certified Dispensers with a view to the admission of dispensers to the Minor qualification without examination. Such a proposal has not the remotest chances of maturing, despite the fact that a clause in the Pharmacy Act, 1908, allows such a course to be taken. On the other hand, it seems that the time has arrived when there should be some definite understanding between the two bodies to the mutual advantage of both. The question of the Assistants' examination (which has long been debated to no definite end) seems to me to be the one which would solve the proposition. I suggest that the Society should inaugurate an Assistants' examination, accepting the "Hall" qualification (which I consider ideal for the purpose, excepting perhaps the inflated fee) as sufficient evidence of skill for registration as a qualified assistant. In this way the Society would increase the money in its "coffers," if such be put forward as the fundamental idea of the present "scheme," and at the same time give the conscientious assistant a status which by merit he will have richly deserved.

Yours truly,

Kennington.

CYRIL B. SNOW.

The Question of the Unqualified Assistant.

SIR,—Your correspondent "Rhei" (C. & D., February 15, p. 64) is knocking at the wrong door. Surely he should apply to the General Medical Council for registration forthwith as a doctor.

Yours faithfully,

E. I. (57/51.)

SIR,—The letter written by "M. P. S." in the C. & D., February 15, p. 63, is, I think, worthy of notice. Unqualified men who could show references from two employers (not taking account of apprenticeship) ought to be registered in some form or other. A small fee of 5s., or even 7s. 6d., could be charged yearly to renew the registration certificate. This would not interfere in any way with the qualified pharmacist, to whom great credit is due, when the examinations have been passed; and I feel sure that a great number of pharmacists have found the unqualified assistants a great help, and wish to have them recognised.

Yours, etc.,

HELP ONE ANOTHER. (58/61.)

SIR,—I have for some weeks followed the letters in the C. & D. regarding the future of the unqualified assistant. Now that the Pharmaceutical Society is discussing the matter of the examinations, let it take a wide view of the trade as it stands to-day. The trade has vastly changed during the past few years. The company shop has altered the business altogether, and made it more commercial than professional. It is no use the Society or the Minor man ignoring the unqualified assistant. The spirit of unionism is growing fast in all trades, and I sincerely trust will quickly develop in the retail chemist's business. That "potty" manner of the Minor man will soon be a thing of the past. Your correspondent "M. P. S." is a good specimen of what I have previously stated: he must remember that the votes of all the pharmacists in the country

are but a mere few in comparison to the number of unqualified when unionism gets going in full swing amongst the unqualified men. I will put to "M. P. S." this: The most of the dispensing—Insurance, private, etc.—is done, and always has been done, by the unqualified man, and the great Minor man has not, and does not, even see the prescription. Now, if unionism gets going and this is announced to the public, where is your great Minor man? How should the Society act? The Society should draw up a syllabus for a modified examination, giving the opportunity to all unqualified men with at least twelve years in the trade, who can give proof of having been engaged in dispensing in several retail businesses, of entering for that examination within a given time. I will venture to go further in framing the syllabus. Dispensing, pharmacy, chemistry, (not too advanced), materia medica, and the sale of poisons. I certainly think if those who present themselves for this examination can satisfy the examiners they would be good men on the Register, and would strengthen the Society as a society. It seems to me that the present Council is messing with the matter, as in the days of 1868. They are few in number, and seem to wish to remain so. The public know nothing of them, and they seem as though they do not wish the public to know anything of them. There is great dissatisfaction in the trade, and always will be so long as the thing is messed up so from time to time. How is the Society going to act in the future if it fines an unqualified assistant for selling poisons and all men stay out and make a grand march to Galen Place? Where will the Minor man be then? My thoughts are not running away by any means; but this is inevitable because unionism in every town is growing amongst the unqualified men. Regarding the future of the apprentice and assistant, frame the law the same as in Ireland, and any man who does not comply with the law must leave the trade. I trust some of our learned Councillors will study this matter, and not think that by dividing the Minor they have settled a problem which, in fact, is greater than they have realised.

Yours faithfully,
GEORGE LLOYD.

SIR,—May I say a word or two on the drug-store question? I own a successful drug store; I claim that my goods are as pure and of as high quality, my shop as smart, and my service to the public as efficient as any registered pharmacist's in my town. I reckon to serve on a Saturday an average of 300 customers, not one of whom requires any scheduled poison—that is one of the reasons of the success of the drug-store: such a few customers require anything that can only be supplied by a Minor man. Why, therefore, should I trouble to waste my capital, etc., in acquiring that of which my success without it proves the uselessness to me? "X-rayser" brings in the conscience question: well, my conscience is quite as clear in selling for myself as it was in selling for a master. I always understood that the reason a man took the "Minor" was to obtain the privilege of dealing in poisons and dispensing prescriptions. I for one neither envy nor desire to usurp those privileges. Of course the old bogey of the safety of the public is always brought out whenever the question of registration is being discussed, but when one reads of liq. strychn. being supplied for tinct. quina. amm. I think it must be admitted that the drug store is the safer shop for the public to deal with. I claim I know my business thoroughly; my customers are all satisfied and well and faithfully served, and if they prefer my shop to that of my registered competitors, that proves the public think my business methods the best, and I fail to see why my rivals should descend to any mean and unsportsmanlike "inquisitions"—there is room for us both.

Yours truly,
CAPSICUM (60/9).

SIR,—Regarding "M. P. S.'s" severe attack on "X-rayser II.'s" observations, may I be allowed to say that "in the beginning the M. P. S. was created and then the world was made" may be true, but then, again, it may not be? Many undoubtedly believe it, and these unfortunates are particularly susceptible to the above disease. As you are aware, it attacks all ages, but particularly the following: The young person who has just been congratulated by the President and looks upon the V.C. as very small fry, and the old registered man, with no training or education at all, who naturally regards "the half-trained dispenser" with a jealous eye because he looks upon his "M.P.S." as the entrance to the El Dorado resulting from pennyworths of white precipitate and carbolic lotion. "M. P. S." is on the look-out for cheap assistance. Both are no doubt unaware that the law allows "the serious injustice of over four years standing" (Report of Departmental Committee, 1913) to be remedied, but let none of your correspondents think for a moment the Pharmaceutical Council (the Court) will award the registration under Sec. 4 (b) if they can, as no doubt they will, wriggle out of it. CANDOR. (17/2.)

SIR,—In reference to the controversy with regard to "competent unqualified" having the right of registration, I think it only right and justifiable, especially in view of the fact that so many have faced such grave dangers for their fellow-pharmacists who were more fortunate to remain at home during the war. I think it is justice and only fair play for those who have served proper apprenticeship and, say, ten years' assistantship under qualified management, and who know their work from A to Z, to be allowed to register on submitting these facts and registration fee, suitably large, to put matters on a successful financial footing for the Pharmaceutical Society. I am sure the broad-minded and the business section of the Pharmaceutical Council will heartily approve of this suggestion, for the goodwill and future welfare of the drug trade. There is a tendency for a lot of the business to go to the grocer and allied trades. Amalgamation and unionism in this way is the safest means of safeguarding our rights and encouraging the "apprenticeship" problem and preventing droves of our excellent hands and members from leaving the trade. Every good wish to the Drug Union. "Let us make hay while the sun shines."

EX-LIEUTENANT R.A.F. AND R.G.A. (59/53).

Legal Queries.

Cedar (57/50).—MEDICINE-STAMP LIABILITY.—The directions for the linctus to be taken "when the cough is troublesome" constitute a recommendation and renders the preparation to which the label is attached liable to stamp-duty.

K. & Co. (56/65).—An ointment labelled as you indicate would require a medicine stamp. Liability is incurred by the possessive case of the word "Smith's" and by the recommendation to use the ointment for "drawing and healing."

A. J. P. (53/21).—If the label "Ammoniated Quinine and Cinnamon" adequately discloses the composition of the remedy, it can be sold by chemists unstamped under the exemption in the Medicine Stamp Act in favour of "known, admitted, and approved medicines."

W. W. (44/43).—Phosphorus paste does not contain a scheduled poison when sold in Great Britain, although phosphorus and its preparations are scheduled poisons in Ireland. It follows that unqualified persons may sell phosphorus paste in Great Britain, but not in Ireland.

Poisons (57/66).—SALE OF POISONS BY WHOLESALE.—The Pharmacy Acts require wholesale dealers to label poisons with (1) the name of the poison and (2) the word "Poison." There is no restriction as to whom the poisons may be sold, except that to be a wholesale sale it must be to "retail dealers in the ordinary course of wholesale dealing." The Cocaine and Opium Regulation, however, prohibits the sale of cocaine to anyone who is not an authorised person. (See *C. & D. Diary*, 1919, p. 79.)

Cedar (57/50) asks: (1) Is an income of 500*l.* exempt from excess-profits duty if it is more than 200*l.* above pre-war profits; and (2) if not, are there any special abatements for small incomes which apply? [(1) An income of 500*l.* would be liable to be assessed to excess-profits duty, but in view of the abatements allowed no duty would in fact be payable by "Cedar." (2) Abatements in such a case are (a) the pre-war standard of profits, (b) the statutory allowance of 200*l.*, and (c) one-fifth of the difference between 500*l.* and 2,000*l.*—that is, 300*l.*—this being the small trader's allowance granted to all traders whose pre-war standard of profits does not exceed 500*l.*]

H. D. S. (55/65) has an assistant who lives indoors and to whom he pays a salary of 130*l.* per annum. He wishes to know (1) in making out his own return for income-tax can he deduct a sum for the board, etc., of the assistant; and (2) is the assistant liable to be assessed on the value of the board, which he estimates at 78*l.* per annum in addition to the regular salary, so that the income chargeable would be 208*l.*, not 130*l.*, less allowances. [(1) As a rule the expenses of maintenance of traders assessable and of their families and establishments are not allowable deductions; but as the board and lodging in this case is part of the remuneration of the assistant it may be deducted as a trade expense in "H. D. S.'s" return. (2) The assistant need not add anything to his own return on account of this board and lodging. He is only assessable on the 130*l.*]

Norvic (47/44) purchased a business, among the stipulations being that the seller is to pay all debts owing by him. No mention was made of syphons, and "*Norvic*" wants to know who is to be credited with the syphons—the vendor or purchaser of the business. [This question often causes difficulty in the transfer of a business. The property in the syphons depends upon whether these belonged to the vendor. As a rule syphons are loaned by an aerated-water manufacturer, and the chemist pays a deposit on the syphons, the syphons remaining the property of the manufacturer, so that the vendor could not legally sell them to the purchaser of the business. If the syphons are branded with the name of the aerated-water maker, this would be evidence that they belong to the manufacturer. Under the Merchandise Marks Act such syphons can only be filled by the maker whose name they bear.]

Balsam No. 2 (53/16) refers to the figures given in our reply on excess-profits duty to "*Balsam*" in the *C. & D.* of February 8, and asks for an explanation of the special allowance of 92l. 10s. which is shown in our reply. He wishes to know whether all retail chemists are entitled to such reduction, as he does not find it referred to in the *C. & D. Diary* for 1919. [Retail chemists are entitled to the special allowance referred to if the amount of their profits brings them within the rule—that is, if the pre-war standard of their profits did not exceed 500%. In any case in which the pre-war standard of profits does not exceed 500%, the taxpayer is entitled to what is known as the small trader's allowance of one-fifth of the amount by which the profits of the year for which he has to return is less than 2,000l. in addition to the statutory allowance of 200l. granted to all traders. And if the pre-war standard of profits exceeds 500%, this small trader's allowance is still to be applied, but with the qualification that it is to be reduced by the amount by which the pre-war standard of profits exceeds 500%. In this way the special allowance of 92l. 10s. was arrived at. Considerations of space did not permit of our treating the subject in greater detail in the *C. & D. Diary*, 1919.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. H. R. (21/51).—(1) *OLEUM CHENOPODII* or oil of American wormseed is given to dogs as a remedy for worms. The dose is mij. to mxxx.; for puppies mij. to mij. A good formula is as follows:

<i>Ol. chenopodii</i>	...	...	...	mxxvj.
<i>Ol. terebinth</i>	...	...	...	mij.
<i>Ol. anisi</i>	...	...	...	mxxvj.
<i>Ol. ricini</i>	...	...	...	3iijss.
<i>Ol. olivæ</i>	...	...	...	3iij.

Mix and heat gently.

Directions: For a full-sized or medium puppy under six weeks old give 3ss. in 3j. of milk. Between six and eight weeks the dose is 5j. to be repeated in an hour. If the bowels do not act within an hour give 3ss.-3j. castor oil. If no worms are expelled the mixture may be repeated in a few days.

(2) *LECLANCHÉ'S CELL* used in batteries required for electric bells requires a saturated solution of sal ammoniac as the exciting liquid. The porous cell contains a bar of carbon packed with a mixture of pyrolusite and gas graphite.

M. E. F. (276/14).—You will find a formula for a liniment of the type you require in *The Chemist and Druggist Diary*, 1919, under the title "New World Liniment."

A. P. M. (30/12).—*COAL-SAVING PREPARATIONS*.—These were recently the subject of a paper before the Manchester Literary and Philosophical Society. The conclusion arrived at was this:

Certain advertised preparations, solutions of which were claimed, when previously sprayed upon the coal, greatly to increase the efficiency of fires, had been analysed and found to consist chiefly of common salt. Their use was found to have no effect whatever upon the radiant efficiency, the duration of burning, or the rise of air temperature produced by coal-fires.

J. H. (55/66).—*SACCHARIN* itself is but slightly soluble in water (0.46 per cent.), but is readily dissolved if previously mixed with at least half its weight of sodium bicarbonate, with which saccharin forms a saccharinate. This form is soluble in twice its weight of water.

J. J. F. (33/9).—*THE SUPPOSITORY* you send contains some vegetable powder which darkens with ferric chloride and is apparently galls. It also contains some alkaloid, as indicated by its aqueous extract giving precipitates with Mayer's and Wagner's reagents, but it has not been identified. Tests for morphine and quinine gave negative results. Some positive reaction for cocaine was obtained, but not very definite. You should have sent particulars of the uses of the suppository.

J. F. S. (49/37).—*PILULE SAVONNEUSES (BOISSEY)*.—The recipe given in the Antwerp Formulary is as follows:

Resin. scammonie,	
Sapon. medicati,	
Cort. casear. sagrad. pulv. aa.	0.65
Podophyllini,	
Ext. belladonnæ	aa. 0.01

Pro dosis.

T. W. T. (47/53).—*PHARMACY POT*.—The inscription on the pharmacy pot is intended for "*Oleum Excectense*" or "*Oil of Excter*." The oil referred to is rather an interesting preparation, the origin of which is uncertain. Quincy calls it a "most wretched medley," and a medley it certainly was, containing thirty-four ingredients, mostly herbs and roots, but with some castor in it; and Culpeper highly commends it for "people catching bruises when they are young, to feel it when they are old," etc. It had a place in all our London Pharmacopœias down to 1746 inclusive, but in no other official book, we believe. There is a simpler formula for it in the late Mr. Weddell's "*Arcana Fairfaxiana*," containing only fourteen ingredients, one of which is ambergris. The directions for making it there given are most elaborate, and it is said to be good for "ye gout, or where one is bruised, and for the palsy," the use last named being probably due to the presence in it of "paigles"—that is, cowslips (palsy-worts), which are not in the official formula. The receipt in Weddell's book is written in the beautiful Italian hand said to have been introduced into England about 1615. Oil of Excter is still occasionally asked for in combination with other old oils in veterinary receipts.

J. M. W. L. (2/13).—(1) *CHLOROFORM HAIR-WASH*:

Glycer. boracis	...	...	...	3ss.
Sp. rosmar.	...	...	...	3ij.
Tinct. canthar.	...	...	...	3ij.
Aq. chlorof. (B.P. 1885)	ad	...	...	3viij.

Misce.

(2) *CHILBLAIN OINTMENT*.—The following is the formula for which you ask:

Cera flav.	...	...	...	3j.
Cera japonica	...	...	...	3ij.
Camphor.	...	...	...	3vj.
Paraffin. moll.	...	...	...	3viij.
Liq. plumbi subacet. fort.	...	...	...	3iij.
Lazolin.	...	...	...	3ij.

Misce.

A. E. S. (53/13).—*APPRENTICESHIP TERMS*.—The tendency at present is to take apprentices for three years as the school-leaving age is later now than it was. In place of a premium it is now customary to pay a small salary. The amount depends upon whether the apprentice lives with his master or at his own home.

Retrospect of Fifty Years Ago.

Reprinted from "*The Chemist and Druggist*," Feb. 15, 1869.

On Hair Restorers.

By HENRY MATTHEWS, F.C.S.

This property which the hair possesses of being affected in colour by the use of certain metallic salts, has given rise of late years to a new class of preparations for the hair, called "*Hair Restorers*." It is intended in this report to treat especially of these, leaving the preparations used to produce "*golden locks*" for future consideration. It will be seen that in many cases the labels of these "*Hair Restorers*" state that the preparations referred to contain no dye, while now and then a declaration appears on the label to the effect that the particular compound is not a dye. The truth of these statements very much depends upon what is understood by a dye. According to the common acceptance of the meaning of the word *Dye*, we must admit that most of these mixtures contain a dye, but if the word *Dye* is used in contradistinction to the term *Pigment*, we may then say that those "*Restorers*" do not contain a dye, and that the "*restoration*" is effected by the formation of a pigment in the very substance of the hair itself.

Telephone: Holborn 5398
(2 lines).

Telegrams: "Tourniquet, Smith,
London."

General Surgical Company, Ltd.

Cables: "Tourniquet London."

A B C Code, 5th Edition.

147 & 149 Farringdon Road, LONDON, E.C. 1.



"Tourniquet" and
"Astra" Brands
HYPODERMIC,
SERUM, CATTLE
INOCULATING
SYRINGES.

WHOLESALE AND
EXPORT ONLY.

Manufacturers of SURGICAL and VETERINARY
INSTRUMENTS and DRUGGISTS' SUNDRIES.

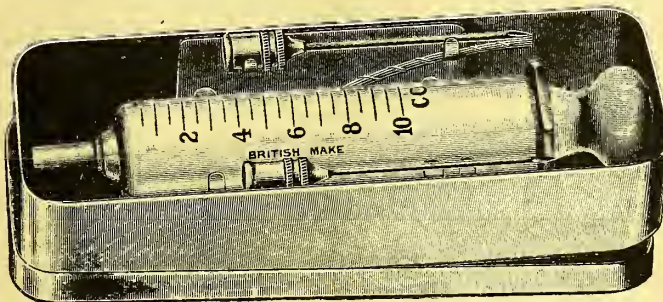
Contractors to War Office, Ministry of Munitions, and
Colonial and Allied Government Departments.

"TOURNIQUET" and "ASTRA" HYPODERMIC and SERUM
SYRINGES have been supplied in very large quantities for Army and Medical
Services, and are now brought to the attention of such of the WHOLESALE
TRADE who desire to handle BRITISH GOODS in preference to Foreign-
made Syringes.

PATTERN No. 26.
2-PIECE SERUM
SYRINGES.
Sizes, 3 c.c., 5 c.c., 10 c.c.,
20 c.c., 25 c.c.

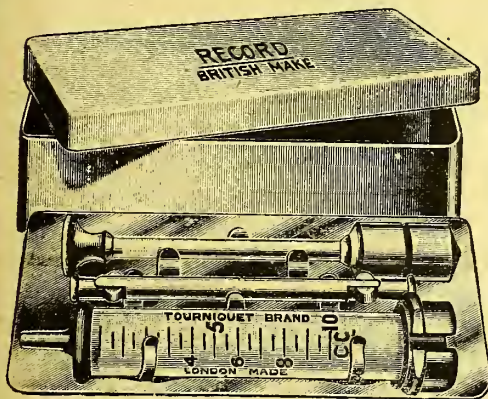
HYPODERMIC
SYRINGES.
20 m. and 40 m.

Nozzles standardised and
unalterable, facilitating the
supply of accurately fitting
spare Needles.



We badge with own
Name or Trade Mark to
Order.

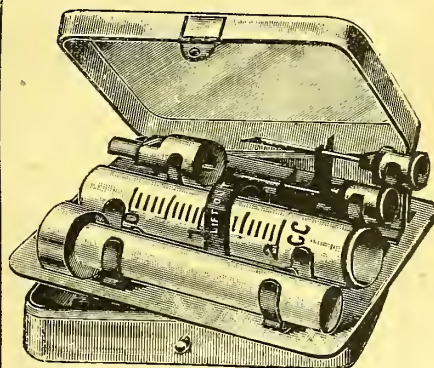
REPAIRS.—These
Syringes, being stan-
dardised as to sizes,
can be promptly re-
paired at fixed rates.



RECORD NO. 28. In all Sizes from 1 c.c. to 50 c.c.

PRICE LIST,
Fully Illustrated,
is in Preparation,
and will be sent
on Application.

Platinum-
Iridium Needles
guaranteed
20 per cent.
Iridium.

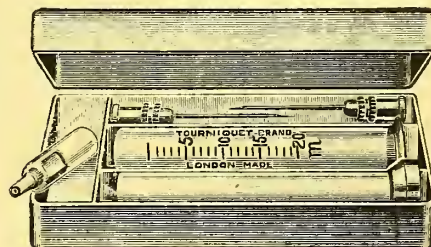


3-PIECE MERCURIAL CREAM SYRINGE.

See our Exhibit at the "BRITISH INDUSTRIES FAIR,"
February 24th to March 7th, STAND B13.



"PERFECTION" ALL-GLASS URETHRAL SYRINGE.
As supplied to the War Office. In 2 sizes, $\frac{1}{2}$ oz. and $\frac{3}{4}$ oz.



No. 23. SYRINGE, 3-PIECE HYPODERMIC.
All Parts Standardised and Repairable.

Buyers are requested to specify BRITISH MAKE when indenting on their supplies for these goods.
We invite inquiries, and are prepared to manufacture any Special Design of Syringes, for any purpose. We
make many "Reserved" patterns in addition to our Standard Models.

Thomas Morson & Son, Ltd.

ESTABLISHED 1821

MANUFACTURERS OF GLYCEROPHOSPHATES

OFFICES :
47 GRAY'S INN ROAD,
LONDON, W.C. 1.

WORKS :
SUMMERFIELD WORKS,
PONDERS END, MIDDLESEX

TARTARIC ACID

and

Cream of Tartar

99-100 %

QUALITIES
GUARANTEED

PROMPT AND
FORWARD
DELIVERY

Clifford Christopherson & Co.

6 LLOYD'S AVENUE, E.C. 3.

Telephone
Avenue 3220 (2 lines).Telegrams
"Christopherson, Fen, London."TOOTH POWDERS
AND PASTES

PHONES :
PADDINGTON 321.
" 322.
" 3518.

DRUGS AND
CHEMICALS

THE
CASSON CHEMICAL CO.
LIMITED

11 Craven Hill, PADDINGTON, W. 2.

(F. H. PLEWS & CO. having amalgamated
with this Company, old friends are asked to
kindly address all communications as above.)

COLD CREAMS AND
TOILET
LANOLINES

ORDERS & INQUIRIES
WILL RECEIVE
PROMPT ATTENTION

STAINS, SOAPS,
AND TOILET
ROLLS

EVANS

FOR

Drugs and Chemicals.

Capsules, Pills and Tablets,

Ointments, Emulsions ^{and}_{all} Pharmaceuticals.

Bacteriological Preparations,

Vaccines and Sera.

Clinical and Bacteriological Examinations.

Organo-Therapeutic Products.

Counter Adjuncts

(Packed Preparations, labelled with a distinctive label and
your own name and address.)

Druggists' Sundries.

Photographic Goods.

Patent and Proprietary Articles.

Evans Sons Lescher & Webb Ltd.

LIVERPOOL and LONDON.

— Also NEW YORK, U.S.A. —

EMETINE**HYDROCHLORIDE
HYDROBROMIDE**

ALSO

**EMETINE - BISMUTH - IODIDE,
ATROPINE, STRYCHNINE,
CAFFEINE, THEOBROMINE, NICOTINE
QUININE SALTS,
IODINE & BROMINE PREPARATIONS****Mercurials, Refined Camphor,
MORPHINE AND CODEINE
Alkaloids and Salts.****Opium and all Opium Derivatives.****WHIFFEN & SONS, LTD., BATTERSEA, LONDON, S.W. 11.**

Telegrams: "WHIFFEN LONDON."

Telephones: 254, 255 BATTERSEA.

Codes for Telegraphing: A B C; Lieber's.

**SANDAL WOOD
OIL.****Whiffen & Sons, Ltd., are
sole Consignees of the****Mysore
Government****Standard Product.****Complies with requirements of all
Pharmacopœias.***Samples can be had upon application to—*

Telegrams: "RAIMES YORK."

Telephone: No. 9.

Raimes & Co., York.**Wholesale Druggists ::
Manufacturing Chemists.****A FEW SPECIALITIES:****Liq. Violæ Ver. Conc., 1 to 15****Raimes' "Elect" Oil of Peppermint****"Premier" Composition Essence****These are regarded
in the Trade as the
STANDARD
of QUALITY*****Wholesale Buyers are invited to make Inquiry.*****Distillers of Spt. Æther Nit., Spt. Ammon. Aromat., &c.
Manufacturers of Liquid and Solid Extracts, Tinctures, Ointments,
Concentrated Waters, &c., and all****High-class Galenicals & Pharmaceutical Preparations.**

Sell a cake of Resinol Soap with every jar of Resinol.

If you try it, you will find it *just as easy* to make a sale of 4s. 3d. for the two as to get 3s. for the Ointment alone. In the treatment of Eczema, Pimples, and other skin troubles, the affected parts should be bathed with Resinol Soap and hot water before Resinol Ointment is applied. Resinol Soap is absolutely pure and non-irritating, and contains the same soothing, healing properties as Resinol Ointment. Tell your customers this and they will buy the soap too. Resinol Soap is also an ideal toilet soap, as the Resinol Balsams keep the skin clear and the hair healthy.

**SEND FOR A MINIATURE
RESINOL SHAVING STICK.**

It's free. We want you to learn how this rich, creamy lather soothes and heals the face. When you have tried it you will WANT to recommend it to every man who comes into your shop.

Resinol Chemical Company,

Baltimore, Maryland, U.S.A.

Great Britain Depot: 97 New Oxford Street, London, W.C.1.

Australasian Agents, CHARLES MARKELL & CO., Sydney, N.S.W.

DUNCAN'S

Modern Products for Progressive Pharmacists

<p><u>Every</u> <u>requirement</u> of <u>Modern</u> <u>Pharmacy Supplied</u></p>	<p>ANAESTHETICS CAPSULES ORGANO- THERAPEUTICAL TUBERCULINS VACCINES</p>	<p><u>All preparations of the</u> <u>British, American</u> and <u>French Phar-</u> <u>macopoeias</u></p>
--	---	--

DUNCAN, FLOCKHART & CO., Edinburgh and London

THE ANGLO-FRENCH DRUG CO., Ltd. Gamage Building,
Holborn, London, E.C.1

Telephone: HOLBORN 1311.

New York: 1270 BROADWAY.

Montreal: DANDURAND BUILDING.

Telegrams: "AMPSALVAS, LONDON."

Paris: 5 RUE CLAUZEL.

WEST-END DEPOT: MODERN PHARMACALS, 48 Mortimer St., W. 1.

Telephone: MUSEUM 564.

AMBRINE

Ambrine is the only Authorised preparation of Dr. BARTHE DE SANDFORT.
We are compelled to state this, as there are various imitations.

**THE CURE FOR
CHILBLAINS.**

HAVE YOU
THE
AMBRINE
CANDLE
IN
STOCK?



TO PREVENT
DISAPPOINT-
MENT
PLEASE
ORDER
AT
ONCE.

SHOW THESE ON YOUR COUNTER.

THE SALE IS CERTAIN.SHOULD FIND A PLACE IN EVERY HOME.

OUR ADVERTISING CAMPAIGN
COMMENCES TO-DAY
IN THE DAILY PRESS.

TERMS:

1 doz. Ambrine Candles ... 12/-

2 free with each dozen.

Making 14 Ambrine Candles
for... .. 12/-

RETAIL PRICE, 1/3 EACH

"Ambrine is a very excellent
neutral wax, having ideal physical
properties."

Vide "Surgery, Gynæcology,
and Obstetrics," April 1918.



Alliance Drug & Chemical Co. London

Offices: 34 LEADENHALL STREET.

NOTE.—Only terms, Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free: Export cases extra.

* Acid Boric Pulv., 2 cwt. @ 94/- cwt.; 1 cwt. @ 95/6 cwt.

Camphor, English Flowers, "not artificial," 5 lbs. @ 7/6 lb.; ½ oz. or ¼ oz. 7 lbs. @ 8/6 lb.

* Dec. Aloes Co. Conc., 1-2, 6 lbs. @ 2/6 lb.

* Sinecroco, 6 lbs. @ 1/9 lb.

* Cinchonæ (Rubræ) Conc., 1-7, 6 lbs. @ 2/8 lb.

Fol. Sennæ Tinnev., 1 cwt. @ 7½d. lb.; 7 lbs. @ 9½d. lb.

Fuller's Earth, fine powder or lump, 5 cwt. @ 11/6 cwt.; 1 cwt. @ 13/-

* Inf. Calumbæ Conc., 1 to 7, 6 lbs. @ 2/6 lb.

* Caryoph. Conc., 1 to 7, 6 lbs. @ 2/4 lb.

* Cinchonæ Acid, 1 to 7, 6 lbs. @ 2/10 lb.

* Gentianæ Co., 1 to 7, 6 lbs. @ 1/8 lb.

* Rhei Conc., 1 to 7, 6 lbs. @ 2/3 lb.

* Senegæ Conc., 1 to 7, 6 lbs. @ 5/- lb.

* Lig. Ammoni Acetatis Conc. 1-7, 6 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.

* Ammon. Aromat., 6 lbs. @ 1/2 lb.

* Amygdal. Ang., B.P., 9 lbs. @ 4/6 lb.

Potass. Chlor. Pulv., 7 lbs. @ 2/9 lb.

Potass. Cit. B.P., 7 lbs. @ 6/6 lb.

* Spt. Ether Nit., P.B., 4½ lbs. @ 5/11 lb.

* Ammon. Aromat., P.B., 5 lbs. @ 4/10 lb.

* Chloroform, P.B., 5 lbs. @ 6/- lb.

* Syr. Scillæ, P.B., 7 lbs. @ 1/- lb.

* Sennæ, P.B., 7 lbs. @ 1/6 lb.

* Tolut, P.B., 7 lbs. @ 1/3 lb. [Aquos, 1/9 lb.]

* Tinct. Nucis Vom., B.P., 5 lbs. @ 4/7 lb.

* Tinct. Opii, B.P., 5 lbs. @ 10/2 lb.

* Tinct. Opii Aquos., 5 lbs. @ 8/6 lb.

* Tinct. Quininæ Amm., B.P., 5 lbs. @ 4/6 lb.

* Ung. Sulphuris (made with Paraf. Mollæ Alb P.B.), 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.

* Zinci Oxid. Benz., 28 lbs. @ 1/6 lb.

Minimum quantity at these prices: Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

The Reason why CICFA Customers do not waste your time or the time of your assistants when purchasing CICFA.

THOSE who come to you for CICFA arrive with their minds fully made up. They have no questions to ask, because they are fully informed. They know CICFA gives the results claimed, and gives the results of which they are in need. The reason for this is that our advertisements, and still more the thousands upon thousands of personal letters which we have written to the public, have so clearly explained the process of Digestion, the alterations in that process which produce Indigestion, and how to take CICFA to remove the alterations and restore the process, that they arrive well-informed.

But, still further, as CICFA has been taken up by more than 15,000 British Doctors, the great mass of them have been advised by their Doctors to take CICFA, and informed as to its exceptional merits.

Consequently they do not need to waste your time. Their only need is CICFA.

CAPSULOIDS (1909) LTD.
8a Duke St., Manchester Sq., London.

SALICYLIC ACID,
B.P.

SODIUM SALICYLATE,
B.P.

HOLT, THOMPSON & CO.
(LIMITED)

Fine Chemical Manufacturers,
Manesty Buildings,
College Lane, **LIVERPOOL.**
Works: Binns Road, **LIVERPOOL.**

Telephones { Offices: Royal 2060. Telegrams:
 { Works: Old Swan 413. "Salol Liverpool."

FOR
**QUININE
& SALTS**

ALSO
**QUINIDINE
CINCHONINE
CINCHONIDINE** } **AND
SALTS**

AND
SUGAR-COATED QUININE TABLETS

MANUFACTURED BY
AMSTERDAM QUININE WORKS,
Wittenkade 48/50, Amsterdam,

APPLY TO
SOLE AGENTS for the UNITED KINGDOM:—
COURTIN & WARNER, 8 Harp Lane,
London, E.C.3.
For samples, prices and particulars.

Telegrams: "Accountwa, Bilgate, London."
Telephone No.: Avenue 2220.

HUBBUCK'S PURE OXIDE OF ZINC.

Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)
Ayrton, Saunders & Co.
(Lim.)

Baiss Bros. & Company
Bell, Jno., & Co. (Lim.)
Bleasdale (Lim.) (Lim.)

Boots' Pure Drug Co.
British Drug Houses (Lim.)
Burgoyne, Burdidge & Co.

Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)

Corbyn, Stacey & Co.
Dakin Brothers. (Lim.)
Duncan, Flockhart & Co.

Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.)

Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.

Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan

(Lim.)
Harkness, Beaumont &
Co.

Hatrick, W. & R., & Co.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons &
King.

Hodgkinsons, Clarke &
Ward.

Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edin-

boro').
Ismay, John, & Sons
Lofthouse & Saltmer

(Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.

Raines, Clark & Co.
Raines & Co.
Rankin & Borland.

Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R. & Co.

Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler

& Thompson (Lim.)
Woolley, Jas., Sons & Co.
(Lim.)

Wright, Layman & Um-
ney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham,
Boston.

Finlay & Branswig, New
Orleans.

Langley & Michaels, San
Francisco.

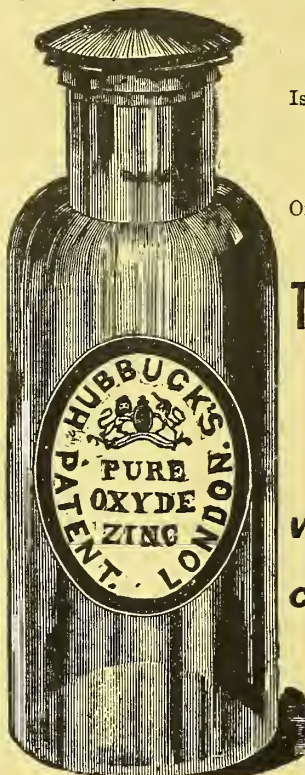
Lehn & Fink, New
York.

McKesson & Robbins, New
York.

Muth Brothers & Co.,
Baltimore.

Roller & Shoemaker,
Philadelphia.

Schieffelin, W. H., & Co.,
New York.
Shoemaker, R., & Co.,
Philadelphia.



HUBBUCK'S PURE OXIDE,

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON,
(Established 1765) **LTD.**

**24 LIME STREET,
LONDON, E.C.3.**

Manufacturers of—

**White Lead, White Zinc,
Paints, Oils,
Colours, Varnishes, &c.**

AUSTRALIAN OFFICE—

34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

T. & H. SMITH LTD

MANUFACTURERS

OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS.

CHLOROFORM

SALICIN

STRYCHNINE

CANTHARIDIN

PODOPHYLLIN

CAFFEINE

EMETINE

THEOBROMINE

JALAP RESIN

ALOID

CAPSICIN

GINGERIN

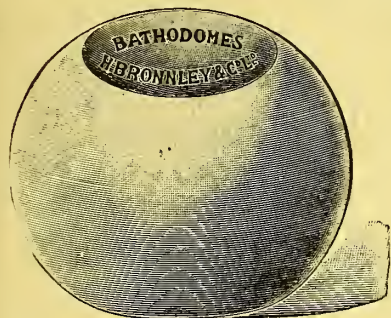
SCAMMONY RESIN

**Blandfield Works,
EDINBURGH.**

**25 Christopher Street,
LONDON, E.C.**

**37 Washington Street,
GLASGOW.**

BRONNLEY'S SOAPS



BATHODOMES

(REGD.)

Verbena, Lavender, Carnation, Rose of
York, June Geranium, Indian Santal.

Packed in boxes of 1 doz.

PER GROSS **102/-** NET.

P.A.T.A. 1/1 EACH.

MITCHAM LAVENDER ALBU-MYL VERBENA SCARLET GERANIUM SOAPS.

In boxes of 3 tablets.

PER DOZ. BOXES **24/-** NET.

P.A.T.A. 3/- PER BOX.



ROUND FLORAL SOAPS.

Santal, Violette, Rose, Lilas, Muguet,
Sweet Pea, Carnation, and Heliotrope.

In boxes of 3 tablets.

PER DOZ. BOXES **24/-** NET.

P.A.T.A. 3/- PER BOX.



H. BRONNLEY & CO., LIMITED,
LONDON, W.3.

SYRUP

ROBORANS

(ROBERTS).

Recognized by the Medical Profession
as **THE BEST TONIC.**IN 8 AND 16-OZ. BOTTLES OF ALL
WHOLESALE HOUSES.**ROBERTS & Co.***Pharmaciens,*

LONDON.

PARIS.

76 New Bond St., W. AND Rue de la Paix, 5.

ROBERTS & CO.INVITE
INQUIRIESFor **NEW & RARE****MEDICINES**OF
FRENCH
ITALIAN
AND
RUSSIAN
ORIGIN.**PRICE LIST**
*sent on application*TO
THE
UP-
TO-
DATE
TRADERThe Newest and Best
POTATO SPRAYER.*'Blighty'*
REG TRADE MARK
BURGUNDY MIXTUREPacked in cartons of 1 lb. to 4 lbs.,
and bags of 14 lbs. to 1 cwt.**PREVENTS
DISEASE****READY FOR USE****INCREASES
CROPS**

Approved by the Food Production Department after thorough trials, and widely advertised in all sections of the Press, this effective spraying mixture will be in brisk demand.

Have you Stocked it?

If not, write at once to the Horticultural Section of the Mond Nickel Co., Ltd., 39 Victoria Street, S.W. 1 (makers of the famous "Maple Brand" Copper Sulphate), for particulars and prices.

CHLOROPHYLL

(OIL SOLUBLE)

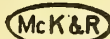
M. M. & R.**Guaranteed to be of Vegetable
origin and of the
highest possible concentration.**Packed for Export shipment
in 5, 10, 25 and 50-lb. cans,
packages inclusive.**TERMS—F.A.S. Vessel,**
Cash against documents in
New York.**MAGNUS, MABEE & REYNARD, Inc.***Essential Oils, Chemicals & Drugs,***NEW YORK, N. Y., U.S.A.***Cables—"MAGLAUR."*

SAMPLE CHEERFULLY SUBMITTED.

McKESSON & ROBBINS

INCORPORATED

Established 1833



NEW YORK, U.S.A.

SOLICIT INQUIRIES FOR

Cascara Bark**Senega Root****Jalap Root****Peppermint Oil****Spermaceti**

Foreign Distributors for

The

New York Quinine and Chemical Works
Limited

Makers of

QUININE STRYCHNINE
ACETANILIDE, Etc.**EPSOM SALTS***Druggist & Commercial Qualities.***ZINC SULPHATE***(White Copperas).***ZINC CHLORIDE***Fused, Granulated and Liquid.***GLAUBER'S SALT****PROMPT & FORWARD DELIVERIES.**
INQUIRIES SOLICITED.**William Blythe & Co., Ltd.**Chemical Manufacturers,
Church, Lancashire.**ASPIRIN**

PURE ENGLISH

ACETYL-SALICYLIC ACID, B.P.

M.P. 135° C.

Free from SALICYLIC, ACETIC,
TARTARIC, and CITRIC ACIDS,
BORAX and all other impurities
and adulterants.The complete purity of our product, combined with its
beautiful physical state and well-crystallised condition,
render it easily superior in every way to the German
product it has replaced.*PHYSIOLOGICALLY PERFECT.*
*Supplied in Wholesale Quantities only.***PICKARD, IVE & RANKIN, LTD.,**
186/88 Walmer Road, Notting Hill, W. 11.
Phone: 4500 Park. Telegrams: "Pickiveran, Norkens."

**SACCHARIN 550**Orion and Monsanto Brands
READY ON SPOT.

APPLY TO DIRECT SHIPPERS—

LINTON, HUBBARD & ANDREW, 72-75 Fenchurch St., London, E.C. 3

Telephone: 1892 Avenue.

A B C and Lieber's Codes.

Cables and Telegrams: "LINTEOLO LONDON."

BRITISH CELLULOSE & Chemical Manufacturing Co. Ltd.**CELLULOSE ACETATES**

Non-inflammable Films, Dope and Varnish.

ACETIC ANHYDRIDETriacetine, Triphenyl-Phosphate,
Tricresyl-Phosphate, Camphor Substitutes.**8 Waterloo Place, London, S.W. 1.**Telephone:
REGENT 4045
(3 lines).

Works: SPONDON, DERBY; WILLESSEN, LONDON, N.W.

Telegrams:
"CELLUTATE
LONDON."**COMPRESSED TABLETS****BRITISH SACCHARINE**3 gr., 550, in each.
Packets of 100, **11/6** per doz.
Bottles of 500, **59/-** "
Bulk **9/6** per 1,000.**PHOSPHORUS AND
QUININE****10/6** per 1000.**CINNAMON AND
QUININE****10/6** per 1000.

WITH SHOWCARDS.

E.H. BUTLER & SON, 93 Humberstone Gate, LEICESTER**SODIUM PHOSPHATE B.P.****RECRYSTALLISED & EXSICCATED.****PROMPT DELIVERIES FROM THE WORLD'S LARGEST MAKERS—****VICTORS Ltd., 16 DEANS GATE, MANCHESTER.**

Works at St. HELENS & STALYBRIDGE.

LONDON: 23-26 ST. DUNSTON'S HILL, E.C.3.

Becker, Shillan & Co.**40 Eastcheap, LONDON, E.C.3.**Telegraphic Address: "BECKDIETZ, LONDON."
ESTABLISHED 1862.

OFFICES AT

**LIVERPOOL, MANCHESTER, GLASGOW,
PARIS & NEW YORK.****EXPORT—IMPORT.***Drugs, Chemicals and
Pharmaceutical Products.***Cream of Tartar****395s. Less 2½ %****Ex Wharf London spot delivery.***Contracts made for forward deliveries of***Tartaric Acid.***Quotations given on application.***The Treatment of Disorders
caused by Distomatosis.****LIVER - FLUKE KILLS
Sheep and Cattle.****LA FOUGÈRE
GIGNOUX***(Veterinary Extract of Male Fern)***KILLS LIVER - FLUKE
and Cures the Animals.***Pamphlets and Price Lists on Application.***GIGNOUX FRERES & BARBEZAT,***Manufacturers of all kinds of Pharmaceutical Extracts,***DECINES, near LYONS (France).****London Agent: R. Ansay, 44 Wilson Street,
Finsbury, E.C.2.***(Telephone: London Wall 3103.)***ACETIC
ACID***(Canadian Product)***Re-distilled
and
Technical****A. Boake Roberts
& Co., Ltd.****Stratford, London,
E. 15.**

Teleg.: "Fuerst, Grace, London."

40 Years

personal knowledge of the
Best Sources of Supply
and of the requirements of
The ultimate Consumer
enable us to give prompt
and economical delivery, at
Lowest Market Prices.

Telephone: 4350 London Wall.

FUERST BROS., Ltd., 17 Philpot Lane, LONDON, E.C.3.**CHEMICALS, OILS, PRODUCE,
METALS, MINERALS, ACIDS.**

Cream of Tartar (*Crude & Refined*), **Argols, Wine Lees,**
Acetic, Tartaric, Citric, Oxalic, Formic and Salicylic Acids,
Potashes, Alkalies, **ESSENTIAL OILS, NATURAL & SYNTHETIC**
PERFUMES (Vanillin), **LIQUORICE JUICE** (Block and Sticks),
etc., etc.

COAL TAR PRODUCTS.

Aniline Oil, Salts. Colours. Saccharine. Photographic Developers.
STONEWARE CHEMICAL PLANT. As supplied to
H.M. Government
Advice and Assistance to our Customers cheerfully
given by our Technical Department.

WHOLESALE ONLY.

"Lanzone" Lanolin

The Odourless Adeps Lanæ, B.P. Manufactured by
THE LONDON PHARMACEUTICAL REFINERS, LIMITED,
Martin's Yard, Endwell Road - **LONDON, S.E. 4.**

In a leading article in the "Medical Press" of June 26, 1918, occurs the following:—

"I hope that the same effort will be made to abolish Hun drugs as to get rid of Hun dyes. In one direction I am glad to find that this is being seriously attempted. One of the most important bases for ointments is lanoline. Now the English lanoline which is made by the London Pharmaceutical Refiners, Limited, of Brockley, has the merit of being superior to the old German lanoline. The B.P. allowance of fatty acids is '7, whereas this new English lanoline shows only '27. The new preparation is quite odourless, and acid fats do not develop in it by keeping. These are great merits, and show the extreme care with which the refining process has been carried out by the British refiners."

Samples and Quotations from the Selling Agents:

THE PRODUCE BROKERS' COMPANY, LIMITED, 24 St. Mary Axe, LONDON, E.C. 3.

**Theobromine
Pure Alkaloid****Caffeine****Theobromine
Sodio-Salicylate**

(chemically the same as Diuretine).

**Societeit voor
Chemische Industrie Katwijk
KATWIJK-AAN-ZEE,
HOLLAND.**

Swiss Bank Corporation

Basle, Zurich, St. Gall, Geneva, Lausanne, Bienne,
Chaux-de-Fonds, Chiasso, Herisau, Nyon.

London Office - - - 43 **LOTHBURY, E.C.2.**

West End Branch: 11c **REGENT ST., WATERLOO PLACE, S.W.1.**

Capital Authorised & Fully Paid-up £3,280,000

Reserves - - - - £1,110,000

Banking and Exchange Business of every description transacted. The Bank will gladly furnish the Chemical and Drug trades with all available information regarding Trade and Industry in Foreign Countries.

ACETIC ANHYDRIDE

AND ALL

FINE CHEMICALS**V. C. NORTH & CO.**

76 **FINSBURY PAVEMENT, E.C.2.**

Phone: Wall 7781. Telegrams: "Hydracetol, Phone, London."

Genuine Russian **LIQUID PARAFFIN**

All gravities, correct viscosities

B.P.**1914**"Jasmine Brand" **ADEPS LANÆ** Superfine
Lanoline Anhydr.
and Hydrous**Finest Qualities**"Jasmine Brand" **PETROLEUM JELLIES**
White and Yellow**Competitive
Prices**"Jasmine Brand" **WHITE OILS** Chem. Pure, Water-white,
Tasteless, Odourless
FOR MANUFACTURING PURPOSES.

• ALSO TRANSFORMER & INSULATING OILS.

The PURE RUSSIAN LIQUID PARAFFIN CO., Ltd.**3 St. Helen's Place, LONDON, E.C.3.**

Actual Refiners and Manufacturers at their Works near London.

Telegrams: "AGENTICUM, GRACE, LONDON."

Telephone: AVENUE 1098 (2 lines).

A. JOHNSON & CO. (LONDON) LTD.**3 Gracechurch St., LONDON, E.C. 3**

Branch Offices at NEW YORK, PARIS and STOCKHOLM.

OFFER SPOT AND FORWARD DELIVERY—Acid Benzoic
" Citric
" Pyrogallio]
" Salicylic
" Tannic
" Tartaric
Barbitone
Bromides
Caffeine
Creosote Carbonate**PHENAZONE**
AND
PYRAMIDONGuaiacol Carbonate
" Crystals
" Liquid
Hydrokinone
Paraldehyde
Phenacetin
Pot. Sulpho-guaiacolate
Resorcin
Salol
Vanillin 100 %**Inquiries Solicited.****WHOLESALE & EXPORT.**

Liquid Paraffin

B.P.

Paraffinum Liquidum Flavum
(B.P. Codex Addendum 1918)

Paraffinum Molle B.P.

Paraffinum Durum B.P.

Linimentum Camphoræ (W.E.F.)
(B.P. Codex Addendum 1918)



Wm. Browning & Co., Ltd.

ALBERT WORKS, CAMDEN TOWN,

LONDON, N.W. 1.

Telephone: Hampstead 4046.

Telegrams: "Semprolin, Norwest, London."

For Prompt Delivery

Cimicifugin

Chrysarobin

PODOPHYLLIN

Caulophyllin

Euonymin

J. F. MACFARLAN & CO., Edinburgh and London

F. CHIESMAN & CO.

Telephone Nos :
AVENUE 63
" 64
" 6994

59 ST. MARY AXE
LONDON, E.C. 3

Telegraphic
Address :
"PALUSTRIS, LED,
LONDON."

We are direct Importers, and can
offer to advantage :

CASTILE SOAP, White
and Green

OLIVE OIL, Edible and
Pharmaceutical

LIQUORICE JUICE,
Blocks and Sticks

OIL OF LEMON

" BERGAMOT

" ORANGE

" PEPPERMINT

" LAVENDER

" ROSEMARY

" PENNYROYAL

JAPAN WAX

BEESWAX

OLEINE

EUCALYPTUS OIL

ANISEED OIL

CASSIA OIL

CITRONELLA OIL

MENTHOL

CITRIC ACID

TARTARIC ACID

CREAM OF TARTAR

HONEY

ALMONDS

CARNAUBA WAX

PARAFFIN WAX

BLOOMLESS OIL

FOR PROMPT AND FORWARD DELIVERY.

Samples, Price Lists, and full particulars
on application.

PURE RAW and/or BOILED LINSEED OILS



We now have
a limited
quantity of the
above for sale,
and can deliver
**WITHOUT
PERMIT or
LICENCE**



*Full particulars as to price, &c., upon
application to—*

THOS. S. HARRIS & Co. Ltd.
4 LLOYD'S AVENUE, LONDON, E.C. 3

Telephone—Avenue 390 & 391.
Telegrams—"Oilcup, Fen, London."

Lanco

ESTABLISHED 1890.

**The London
Oil Refining Co.,**
Browning St., Lucy St.,
MANCHESTER, S.W.

Wire "Premier," Manchester.	Importers, Merchants Manufacturers.	'Phone Trafford Pk 699 & 285
-----------------------------------	---	------------------------------------

**General Supplies
for
Wholesale Druggists**

Sweet, Pale,
Brilliantine Oil,
Etc.

LUBRICATING OILS
GRAPE OIL
PEPPER OIL
ETC.

SOAP
COTTON SEED
OILS
LARD AND
ADRENAL OILS
ETC.

THE BRITISH WAX REFINING COMPANY, LIMITED.

**WHITE BEESWAX
YELLOW BEESWAX**

Slabs, Bars, Tablets or Discs

CERESINE WAX
Bleached Carnauba Wax
Carnauba Wax Residues

*All Waxes Refined, Bleached and Manu-
factured at our Works, REDHILL, SURREY.*

Registered Office:

5 RANGOON ST., LONDON, E.C. 3

ENGLISH MADE PARAFFINUM LIQUIDUM

TASTELESS AND ODOURLESS,

Guaranteed to pass all the tests of the B.P.

BUY from the Sole Selling Agents—

BENJAMIN & CO., 61 St. Mary Axe, LONDON,

of the English Manufacturers—

The HALL MOTOR FUEL Ltd., Edmonton,
and put your own BRAND on it.**WHOLESALE ONLY.****WE ARE OFFERING :****West Indian Honey**

In 5-cwt. Barrels ex Glasgow

Australian Honey

2/60-lb. Tins per case ex London

Jamaican Honey

3½-cwt. Barrels ex London

Dill Seed

20 tons ex London

Sardines, ¼-Clubs

White Key Tins @ 11/6 per dozen ex Liverpool

Saccharine Tablets

550 strength, ½- & ¼-grain, 50,000 per box

Damaged Honey

In 5-cwt. Barrels ex Liverpool

J. WOODHEAD & CO.

Manchester Buildings, 3 Tithebarn St., Liverpool

Telegrams: "Sucrose Liverpool." Telephone: Central 5101

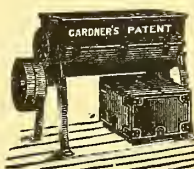
DISPENSING BOTTLES & PHIALS.CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 12 ounce. 6 and 8 ounce.WHITE PHIALS, plain or teaspoons.
½ ounce. 13 ounce.
1 " 2 "Lowest
Market
Prices
Charged.BLUE LOTION BOTTLES, all sizes.
CORKS. Superior Quality. No advance in price.6 and 8 ounce 1s. per gross, in 6 gross bags.
Vials 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or **ISLINGTON BOTTLE COMPANY,**7 New Inn Yard, Tottenham Court Road, London, W. 1.
Orders sent to either establishment have attention.

Established 100 Years.

Bankers: London County and Westminster Bank, Bloomsbury Branch.

GARDNER'S PATENT**"RAPID" SIFTERS & MIXERS****OVER 5,300** working inalmost every Trade where
POWDERS are Sifted and
Mixed and Lumps Re-
duced, all being done at
one operation and without
loss by dust.**FOR HAND OR POWER.****From 60/- upwards.****CATALOGUES FREE.****WM. GARDNER & SONS, Engineers, GLOUCESTER**

WELCH & HORNER,

DRUG MERCHANTS & ESSENTIAL OIL IMPORTERS,
JUTE & COIR YARN COLOR MANUFACTURERS,

9-10 Jewry Street, and Carlisle Avenue, LONDON, E.C.3.

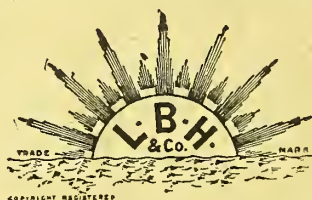
Telephone—Avenue 3070.

Telegrams—"Orrisroot, Fen, London."

Aloes (Curacao and Cape), Aniseed, Balsam Tolu, Block Juice, Cardamoms, Castile Soap, Colocynth Pulp, Dandelion Root, English Belladonna Leaves, Gentian Root, Gum Tragacanth, Irish Moss, Japanese Isinglass, Licorice Root, Marshmallow Root, Orange Peel, Orris and Senega Roots, Quassia Chips, Quillai (Bark and Cut), Rhubarb, E.I., all grades, Sarsaparilla, Scammony Root, Senna Leaves and Pods, Squills, Sulphur Flowers, &c. Oils of Eucalyptus, B.P., Lemon, Orange, Bergamot, Cassia & Peppermint (Jap.).

(Kindly write for price list.)

L. B. HOLLIDAY & Co., LTD., HUDDERSFIELD, ENGLAND.



ARE MAKING AND CAN GIVE PROMPT DELIVERIES OF:—

SALICYLIC ACID, B.P.

ACETYL-SALICYLIC ACID, B.P.

(ASPIRIN)

Finest Quality
Best Appearance
Lowest Price

TARTRAZINE

AURAMINE II.

METHYLENE BLUE, Z.F. CONC.

METHYLENE BLUE (Medicinal Quality).

FOR

FULL PARTICULARS APPLY

SALES DEPARTMENT,

L. B. HOLLIDAY & Co., LTD.,
HUDDERSFIELD, ENGLAND.

TELEPHONE: 334 HUDDERSFIELD (4 LINES).

TELEGRAMS: "DYEWARES, HUDDERSFIELD."

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

*Sole Manufacturers of***JUBOL****RE-EDUCATION OF THE
INTESTINE.**Constipation, Enteritis, Hæmorrhoids,
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

GLOBÉOL**POWERFUL BLOOD TONIC.**Anæmia, Nervous Exhaustion, General
Debility, Tuberculosis Convalescence,
etc.

Price 5/- per bottle.

PAGÉOL**POWERFUL URINARY
ANTISEPTIC.**Cystitis, Prostatitis, Catarrh of the
Bladder, Renal Tuberculosis, etc. etc.

Price 5/- and 11/- per box.

JUBOLITOIRES**SCIENTIFIC SUPPOSITORIES**For Hæmorrhoids, Rectitis, Anal Fistula, etc.
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

URODONAL**POWERFUL URIC ACID
SOLVENT.**Rheumatism, Gout, Arterio-sclerosis,
Stones, Gravel, Sciatica, Neuralgia and
all Uric Acid disorders.

Price 5/- and 12/- per bottle.

VAMIANINENew Scientific Preparation for Chronic
Skin Affections, Psoriasis, Eczema,
Acne, etc.

Price 11/- per bottle.

SINUBÉRASE**SCIENTIFIC PREPARATION OF
LACTIC FERMENTS.**Indicated in Intestinal Disorders,
Dysentery, Diarrhoea, Dyspepsia, Enteritis,
Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

FANDORINEMetrorrhagia, Dysmenorrhœa and Lactation,
Pains, etc., etc.

Price 5/- and 11/- per bottle.

FILUDINE**SPECIFIC FOR THE LIVER.**Malaria, Diabetes, Cirrhosis, Sluggish
Liver, Tuberculosis, etc.

Price 11/- per bottle.

BRITISH AND COLONIAL AGENTS—**Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.**

Telegrams: "URODONAL LONDON." Telephone: Regent 192.

AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.

INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.

*Stocked by all Wholesalers.**Now being largely advertised.**Heppells***"Milk of Magnesia"**

(Registered Trade Mark.)

*The CHARLES H. PHILLIPS CHEMICAL CO.
regret that owing to Transport Difficulties they are
unable for the present to execute any orders for
"Milk of Magnesia" and "Phospho-Muriate of
Quinine." They trust the stoppage will only be of
short duration.*

The CHARLES H. PHILLIPS CHEMICAL CO.,14 Henrietta St., Covent Garden,
LONDON, W.C. 2.'Phone Address:
GERRARD 275.Telegrams
"MILKOMAG LONDON."

LONDON CHEMICAL WORKS, LTD.

Whilst the purchase of Foreign Salicylates may have been justified as a War Measure there are now ample supplies of

Salicylic Acid and Sodium Salicylate

manufactured at Southall, which compare favourably with all foreign makes in the *three essentials*—Quality, Price, Delivery.

Support British Industry.
SOUTHALL.

TELEGRAMS: "CHEMICAL."

TELEPHONE: 56.

QUININE } AND CINCHONIDINE CINCHONINE QUINIDINE } SALTS

SUGAR-COATED QUININE TABLETS & PILLS.
GELATINE-COATED OVAL PILLS

BANDOENG QUININE FACTORIES

BANDOENG-JAVA.

Telegrams—"Kininefabriek Bandoeng."

AMSTERDAM—Keizersgracht 173

Telegrams—"Schalkwyk Amsterdam."

SOLE AGENTS FOR THE UNITED KINGDOM—

C. M. & C. WOODHOUSE, 30 Mincing Lane, London, E.C. 3.

Telegrams—"Palmiste, Telew, London."

SAMPLES AND PRICES ON APPLICATION.

GRAND PRIX, BRUSSELS, 1910
GRAND PRIX, LONDON, 1909
GOLD MEDAL, ST. LOUIS, 1904

Estab. 1844.

Thomas Tyrer & Co.

LIMITED.

Thomas Tucker, Manager.

Stratford, London, ENG.

*Our Reputation
Your Guarantee.*

“Sterling”

BRAND

FINE CHEMICALS

Pharmaceutical and Technical.

**ETHERS, HYPOPHOSPHITES
BISMUTHS, MERCURIALS,
GRANULAR AND SCALE
PREPARATIONS.**

Acetone, Acids, Amyl-Acetate, Anti-
mony Salts, Barium Salts, Bromides,
Citrates, Collodions, Calcium Salts,
Copper Salts, Driers, Iodides, Lead
Salts, Manganese Salts, Nickel Salts,
Phosphides, Phosphates, Potassium
Salts, Pyroxylin, Siccatives, Sodium
Salts, Sulphur, Thorium Salts, Tung-
sten Salts, Zinc Salts.

Rare Gases—

Argon, Helium, Neon, Krypton.

Tablets of all kinds

TURNER'S TABLETS
of every description are
guaranteed to be made
only with the finest materials
obtainable. Their prices com-
pete with any high grade
Tablets and Pills on the market.

By giving your next order
for Pills or Tablets to Turner's
you are making certain of
three things—guaranteed
prompt delivery—lowest pos-
sible prices and the very best
goods.

Quotations for Pills and Tab-
lets of all kinds and in any
quantities gladly given on
request.

Make a Note of the Name Now



Broad Street House, London, E.C.2
Works: **Southchurch, Essex**

Telephone :
London Wall, 7162

Telegrams :
Urchemicam, Ave, London

SULPHATE OF COPPER

(CRYSTALS & GRANULATED)

**HIGHEST PURITY 99/100 %
Guaranteed.**

THE
MOND NICKEL COMPANY,
LIMITED,
39 VICTORIA STREET, LONDON, S.W. 1.
ALSO MAKERS OF
NICKEL, NICKEL SULPHATE,
And **NICKEL AMMONIUM SULPHATE.**

Established
— 1846 —**Ferdinand ROQUES, PARIS.**

Manufacturer of PURE PHARMACEUTICAL CHEMICALS.

**COCAIN, PILOCARPIN, SPARTEIN,
ATROPIN, HOMATROPIN, etc.**OTHER SPECIALITIES: Refined Camphor, Iodides, Iodoform, Iodothymol,
Bromides, Bromoform, Bismuth Salts, Cacodylates, Methyarsinates.

SOLE AGENTS FOR THE U.K. (Wholesale only):

W. CHARITY & SONS, 14 Harp Lane, London, E.C.FACTORY: St. OUEEN (Seine).
GOLD MEDALS, PARIS 1889, 1900.
GRAND PRIX: TURIN 1911.
HORS CONCOURS: LYONS 1914**"ROQUES"**Telephone: AVENUE 4359.
Telegrams: "CHARITY, LONDON."
Codes: ABC, and LIEBER'S.

Johnson, Matthey & Co. Ltd.
Melters and Assayers to
The Bank of England and the Royal Mint, etc.
Metallurgical Chemists etc.

PERFECT PHOTOGRAPHIC EMULSIONS
depend on the purity of their ingredients.
NITRATE SILVER
is the most important of these, and it happens also to
be very sensitive to contamination.

A wide margin of safety has therefore always been
our principle in manufacturing it. First, through-
out the whole of our processes we use exclusively
vessels made of Gold and Platinum. Secondly, all
our first crystals are twice redissolved and recrystal-
lised. Thirdly, every batch of final crystals is tested
before passing into our stock.

Our guarantee of highest purity is thus assured.

Competitive Quotations on request.
Mark indents "Johnson, Matthey's."

None genuine if not labelled with our name & Trade Mark

Cables—"MATTHEY LONDON" (all Codes used)
Telephone—9740 CITY (6 lines).

73-82, Hatton Garden
LONDON E.C.1
Established over 100 Years

Telephone
MATTHEY SMITH
LONDON

Telephone
9740 CITY
& LIVER

Broker and Commission Merchant

FOR ALL CLASSES OF

FINE & HEAVY CHEMICALSDrugs, Acids, Gums, Colours,
Seeds, Spices, Waxes.**RAW MATERIALS**

FOR

Pharmacy and the Perfumery Industry.

EXPORTER OF

French, Spanish and Italian
BOTANICAL DRUGS & CHEMICALS**BUYING AGENT**
for Leading Houses.*Supplier to the French & American Red Cross.*

MAISON FRANCOIS BITTNER

R. BUDDENSIEG

201 Boul. Malesherbes, PARIS.

Telegrams: "Bittner, Paris."

CANADA

PRODUCERS of Fine Chemicals, both English and Foreign, are invited to put us on their mailing lists of prices current, and submit from time to time special offers for their products.

We have business connections throughout Canada the West Indies, and some of the South American Republics, and are open to purchase "specials" in exceptional quantities.

Manufacturers of Specialities suited to the Drug trade and shopkeepers generally throughout rural Canada, are invited to submit us samples and prices. (4)

N. C. POLSON & CO.
(Established 1877) LIMITED

Wholesale Druggists,

MONTREAL - CANADA

THERE IS BIG BUSINESS

WAITING IN

CANADA

for BRITISH MANUFACTURERS of Pharmaceutical & Chemical Products, Toilet Articles, Surgical Instruments and Appliances. I am open to take up at once Agencies for First-class Firms as I know the Wholesale and Retail Drug Trade thoroughly all over the Dominion.

WRITE TO

280/34, c/o THE CHEMIST & DRUGGIST,
42 CANNON STREET, LONDON, E.C. 4.

Canadian Sanitas Co.

Importers of Sundries, Drugs & Chemicals

9 St. Nicholas St. (cor. St. Paul)

MONTREAL, Canada.

QUOTATIONS SOLICITED.

Correspondence invited from firms having Agencies to offer in Canada.

AGENCIES

In Chemical and Pharmaceutical Products, wanted for Holland and its Colonies, by

Royal Dutch Chemical Works

(late BROCADES & STHEEMAN),

MEPPEL - HOLLAND.

ALL

Chemicals & Drugs

PHARMACEUTICAL and TECHNICAL.

WHOLESALE and EXPORT

INQUIRIES SOLICITED.

V. A. PICERNO

92 Falcon Road, BATTERSEA, LONDON.

Telephone: BATTERSEA 1612.

Telegrams: "PICERNO, FALCON RD., BATTERSEA, LONDON."

Telegraphic Address: "SIBER."

Siber, Hegner & Co.

Yokohama, Tokyo, Kobe,

Zurich (Switzerland).

Established in Japan since 1866.

General Export, Import
AND
Commission Merchants.

SPECIALITIES:

Fine and Heavy Chemicals.

SCIENTIFIC ORGANOOTHERAPY PRODUCTS**"OPOCAPS" (Regd.) and SPECIAL REGISTERED PRODUCTS.**

Lymphoid Compound, Lymph Serum, Ovamammoid Compound, Adrenin (B.O.C.), Evamine, Hæmatothyroidine, Tetropituitol, Fukinase, Pancreatokinase, and Extracts Pancreatic, Thyroid, Thymus, Suprarenal, Splenic, Red Bone Marrow, Prostatic, Orchitic, Placenta, Pituitary, Pitglandin, Parathyroid, Lymphatic, Corpora Lutea, Ovarian, Mammary, Biliary, Renal, Hepatic, Gastric Mucosa, Brain, Spinal Cord, and all other Organotherapeutical Preparations employed in Modern Medicine.

THE BRITISH ORGANOOTHERAPY CO., Ltd., 22 Golden Square, Regent St., London, W. 1.

Telephone—Gerrard 7111

Telegrams—"Lymphoid London."

**PATTINSON'S****MAGNESIA**

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.London
Agents—

Messrs. CLIFFORD CHRISTOPHERSON & CO., 6 Lloyd's Avenue, London, E.C.

GUMS**IMPORTERS—FIRST-HANDS]****ALBERT J. TAYLOR & Co.**

30 Great Tower Street, London, E.C.3. Established 1884.

Phone—Central 207. Telegrams—"Albert Taylor, Bilgate, London."

Cables—"Tazadoras London." Code: A B C (5th edition.)

KUR-MANGETHE CERTAIN REMEDY
FOR
PARASITIC MANGE
IN
HORSES, CATTLE, DOGS, &c.

BOXES OF 1 doz. 1/6 packets, 12/- per box. On P.A.T.A. list.

McDOUGALL BROS., Ltd., 66/68 PORT STREET, MANCHESTER.

HOPKIN & WILLIAMS, LTD.,

16 Cross St., Hatton Garden, LONDON, E.C.1.

Works: Telegrams: "Cerium London."
ILFORD, ESSEX. Telephone: 604 Holborn.**GUARANTEED CHEMICAL REAGENTS**
FOR ANALYSIS AND RESEARCH.Made and supplied to standards and specifications
described in the recent publication**"Analytical Reagents:
Standards and Tests."**

Compiled by EDMUND WHITE, B.Sc. (Lond.), F.I.C.

NEW EDITION.**NOW READY.**

Price 1/- Post Free.

Established 200 Years.

C. R. CROSSKILL & SONS

CALVERT ST. WORKS, NORWICH

Importers and Manufacturers of

**CORKS, SURGICAL DRESSINGS and
CHEMISTS' SUNDRIES.****SPECIAL OFFERS:**

Absorbent Cotton Wool, 1/9 per lb.

6- and 8-oz. Dispensing Corks, 7d. per gross.

Offer for Immediate Shipment.COUMARIN. SACCHARIN (Soluble; Insoluble).
VANILLIN. MILK SUGAR.
HYDROQUINONE.**Wanted to Purchase.**Sparteine Sulphate.
Luminol (Phenylethylmalonylurea).
Luminol Sodium (Salts of Phenylethylmalonylurea).

Send us your offerings and inquiries.

SAMSON ROSENBLATT,

89 Fulton Street, New York City.

Chemical Works Madoery, Ltd.**BASLE, SWITZERLAND.**

Established 1902. Swiss Firm.

Extractum Filicis Maris

(24/25%).

We have a continuous output of fine quality,
and can book orders for important quantities,
prompt and future delivery.

WE KEEP REGULAR STOCK IN LONDON. (1)

J. W. DRYSDALE & SONS

16 FISH STREET HILL, LONDON, E.C.3.

IMPORTERS AND EXPORTERS.

DRUGS, FINE CHEMICALS, SYNTHETICS, BORAX, &c.

OPIUM, MORPHIA, CODEIA, EXTRACT MALE FERN, ALKALOIDS,
&c. &c.

Telegrams: "FLORENTINE, BILGATE, LONDON."

Telephone: AVENUE 4279.

REGISTERED TRADE MARK.



THE PHOENIX CHEMICAL Co. Ltd.

Jackson Street, Church, Accrington,
Lancs.



TARTARIC ACID

SULPHATE OF POTASH

Telephone: 2320 Accrington.



CREAM OF TARTAR

SODA POT. TART.

TARTAR EMETIC

Telegrams: "Acid Church."

Cable Address:

"CELAITCH, NEW YORK."

CHAS. L. HUISKING, Inc.

5 PLATT STREET, NEW YORK CITY.

Brokers & Commission Merchants.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agents for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.

VICTOR BLAGDEN & CO.,

4 Lloyd's Avenue, LONDON, E.C. 3.

AMMONIA PRODUCTS

SULPHATE
MURIATE
NITRATE
CARBONATE

ACETIC ACID
TRIOXYMETHYLENE

TAR PRODUCTS

PITCH
CREOSOTE
CARBOLIC ACID
PYRIDINE
CRESYLIC ACID, etc.

FORMALDEHYDE
ARSENIC

BENZOL
TOLUOL
SOLVENT NAPHTHA
NAPHTHALENES

WHITE AND RED LEAD
PARAFFIN WAX

CYANOGEN PRODUCTS

PRUSSIAN POTASH
PRUSSIAN SODA
PRUSSIAN CALCIUM
CYANIDE OF POTASSIUM
CYANIDE OF SODA

OXALIC ACID
CAUSTIC SODA

Telegraphic Address: "BLAGDENITE, FEN, LONDON."

Warrington Chemical & Drug Co. LTD.

Paddington Works, WARRINGTON

Manufacturers of
Salicylic Acid & Salicylates
OF FINEST B.P. QUALITY.

IMMEDIATE DELIVERY.

LANKSHEAR, WICKSTEAD & CO., LTD.

Botany Mill, WOODLEY.

Telegrams: "RACEMIC. WOODLEY." Telephone: 280 Hyde

MANUFACTURERS OF
TARTARIC ACID B.P.
Crystal and Powder.

ETNA

(REGISTERED.)

New Season's OILS now afloat

CASTOR OIL B.P. SWEET ALMOND OIL B.P.

OLIVE OILS B.P. OILS of LEMON, ORANGE & BERGAMOT, B.P.

WRITE FOR **SAMPLES AND PRICES**, PROMPT AND FORWARD DELIVERY.

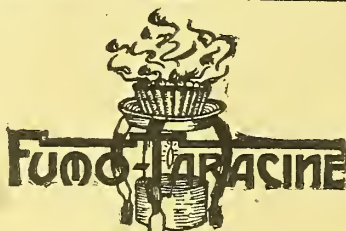
SOLE IMPORTERS—

LINTON, HUBBARD & ANDREW, 72-75 Fenchurch St., London, E.C.3.

Telephone: 1892 Avenue.

A B C and Lieber's Codes.

Cables and Telegrams: "LINTEOLO, LONDON."



TRADE MARK.

The Fumigator for Throat & Lungs
with the FREE VAPORISER

is now sold by

350 SOLE AGENTS

and

nearly 1000 Retail Chemists
throughout the Country, —

and still we want more Agents and Stockists to save our
handling post orders direct from the public.

THE TERMS ARE REMUNERATIVE.
THE PRODUCT SELLS ITSELF.

Recommended for—
ASTHMA
WHOOPIING COUGH
CATARRH
COLDS
SORE THROAT
MEASLES
BRONCHITIS
BRONCHO-PNEUMONIA
INFLUENZA
SPASMODIC-CROUP

2 oz. 1/4 1/2, 4 oz. 2/3, 16 oz. 6/3

Complete with FREE VAPORISER.

The COAL BY-PRODUCTS Co.
112 HIGH HOLBORN, LONDON, W.C. 1

Eucalyptus Oil B.P.

PERRY & HOPE LTD.

1 Leadenhall Street, London, E.C. 3.

Telegrams - "PERRYHOPE, LED, LONDON."
Telephone - AVENUE 5661 (3 lines).

Tel: L.W. 7781. Tel. Add: "HYDRACETOL, PHONE, LONDON."

BENZOATES

LIMITED.

ENGLISH

MANUFACTURERS OF BENZOIC ACID,
SODIUM BENZOATE, Etc.

VERY FINEST QUALITY.

76 FINSBURY PAVEMENT,
LONDON, E.C. 2.

"Ichthyol"

The German product equalled, if not excelled, by "ITTILOLO," manufactured from the ichthyolitic shales of GIFFONI VALLEPIANA, has been brought to the notice of all medical men in this Country Italy, France and America.

Manufactured by the
SOCIETA INDUSTRIE CHIMICHE "ITTILOLO"
Via Medina 24, Naples, Italy.

Analyses, pamphlets and prices on application to Sole Agent in the U.K.:

PAUL BEHREND'S
(of HAVRE)

4 ADRIA ROAD, DIDSBURY,
MANCHESTER.

Twenty-Five per Cent. CLEAR PROFIT

is made on the sale of BLENOSAN CAPSULES. Owing to the extensive advertising propaganda embarked upon to the Medical profession, the sales are daily increasing. Every Chemist should be ready with stock to meet the demands of the Medical profession, who are prescribing BLENOSAN for the treatment of Gonorrhœa and other urinary troubles. ★ ★

On P.A.T.A.

32/- doz. Only size tin, 3/6 each



PREPARED BY

**ROBERT
FERBER
LIMITED,**

—98-104—
Oakley Street
LONDON, S.E.1

JOHN & JAMES WHITE,

7 WEST GEORGE STREET, GLASGOW, SCOTLAND.

MANUFACTURERS OF

BICHROMATES

OF POTASH, SODA AND AMMONIA
CHROMATE OF SODA.

Also HIGH STRENGTH SULPHATE OF AMMONIA AND TAR.

Telegrams :
"PAGANINI CANNON,
LONDON."

CHAS. PAGE & CO., Ltd.

Telephones :
AVENUE 1729
(3 lines).

47/51 King William Street, LONDON, E.C. 4.

OFFER AT FIRST HAND FOR PROMPT DELIVERY :

ACETIC ANHYDRIDE

BARIUM CHLORIDE

BENZO-NAPHTHOL

BETA-NAPHTHOL

CALCIUM ACID PHOSPHATE

CHLOROPHYLL

BALL & FLAKE NAPHTHALINE

MAGNESIUM SULPHATE

PARAPHENYLENEDIAMINE

SODIUM ACETATE

" BISULPHITE POWDER

" SOLUTION

" NITRITE

SODIUM PRUSSATE

" PHOSPHATE

" PYROPHOSPHATE

" SULPHITE

(Coml. & Peco)

TARTARIC ACID

THYMOL

LONSDALE & THOMPSON (1916) Limited

58 Corporation Street

MANCHESTER

INVITE INQUIRIES FOR

FINEST SPANISH OLIVE OIL"CREAM" quality $\frac{1}{2}$ % Acidity. Casks about 48 galls., **26/-** per gall. London.

"IMPERIAL" "1%" "25/-"

Cans (2 in case) 2 galls. each, **28/-** per gall. Manchester.,, (4 in case) 1 ,, **30/-** ,,

BRANCH HOUSES at Glasgow, Bristol, London, Liverpool, Birmingham & Newcastle-on-Tyne.

MALMSTEN & BERGVALL

Cable Address—"BERGVALL" GOTHENBURG, SWEDEN. ESTABLISHED 1877.

*Large Importers of***Heavy and Fine Chemicals, Drugs, Colours,
Pharmaceutical Products and Oils**

Bankers ... Skandinaviska Kredit Aktiebolaget, Göteborg.

ADEPS LANÆ**B.P.****"ULTRAVI" Brand.****The Latest & Best.**

— Inquiries Invited. —

THE

C.V.O. Chemical Works,

LIMITED,

Petersham Road,**RICHMOND (SURREY).****46 % Profit**

A good return of profit on a widely advertised article is assured to all Chemists who stock

Chocoloids**The Cure for Constipation**Chocoloids are supplied to the retailer in two sizes—at 12/- and 24/- per dozen. With each dozen small size is given FREE two small tins, and with each half-dozen large size one large tin. Retail price $\frac{1}{3}$ and $\frac{2}{6}$ respectively.**Chocoloids Advertising is National.**

Daily and weekly newspapers, weekly and monthly periodicals all carry Chocoloids advertising to the extent of over ten million copies per month. Chocoloids are already sold when you exhibit our showcard.

Send an order to-day. Show material supplied free.

The Chocoloid Co.,
Stirchley Laboratories - Birmingham.

A1

P

ASPIRIN B.P.*(P. M. Brand).***PHENACETIN B.P.***(P. M. Brand).*

In 4-oz. and 1-lb. Boxes.

In 5-grain Tablets, packed in
25's, 50's and 100's.In 5-grain Tablets, in bulk.
Boxes of 1,000.

Tins of 5,000, 10,000, etc.

SALICYLIC ACID B.P.In Packages of 1 lb. and upwards. *(P. M. Brand.)*

DISCRIMINATING PHARMACISTS are invited to write direct for our lowest terms, stating their requirements, or place your order with your wholesaler, specifying our make. (Messrs. H. & T. KIRBY & CO., Ltd., Willesden Green, N.W. 2, carry stocks.)

The absolute purity of our products, and the consistent reliability, together with the right price, recommend our fine Chemicals to all who desire to enhance their reputation by using and selling only the best.

PIERSON, MORRELL & COMPANY, Ltd.

Chemical Manufacturers, BARNET.

*(Contractors to the War Office.)***MONSANTO CHEMICAL WORKS**

ST. LOUIS, MO., U.S.A.

MANUFACTURERS OF

ACETANILID**ACETPHENETIDIN***(Phenacetin)***ACETYL-SALICYLIC ACID***(Aspirin)***CAFFEINE***(Pure Alkaloid)***CHLORAL HYDRATE****PHENOLPHTHALEIN****CARBOLIC ACID CRYSTALS****COUMARIN****SACCHARIN****SALICYLIC ACID****SALICYLATE OF SODA****SALOL****VANILLIN****GLYCEROPHOSPHATE of CALCIUM****GLYCEROPHOSPHATE of SODIUM***(Pure Crystals and Powdered)***GLYCEROPHOSPHATE of SODIUM***(Solution 75 %)***GLYCEROPHOSPHATE OF POTASSIUM 75 %**

Also **GLYCEROPHOSPHATES of**
IRON, MANGANESE, MAGNESIUM, etc.

GILL & DUFFUS, Agents, 20, 21 St. Dunstan's Hill, London, E.C.3

National Aniline & Chemical Company

Incorporated

21 Burling Slip, New York

Gums

Chemicals

Essential Oils

Quotations on Request

CABLE ADDRESS

"Jubilant Newyork"

LONDON AGENTS

Samuel Lambert & Co.

14 Mincing Lane, E.C. 3.

TWO SIZES ONLY.

**DR. J. COLLIS BROWNE'S
CHLORODYNE****Prices and Terms :****TRADE :**

Minimum Retail Price	...	...	1/3	3/-
Price (<i>per dozen</i>)	...	...	12/3	30/6

Discount 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable.
Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

Dr. J. Collis Browne's**Chlorodyne**

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E. 1.

WOODWARD'S GRIPE WATER

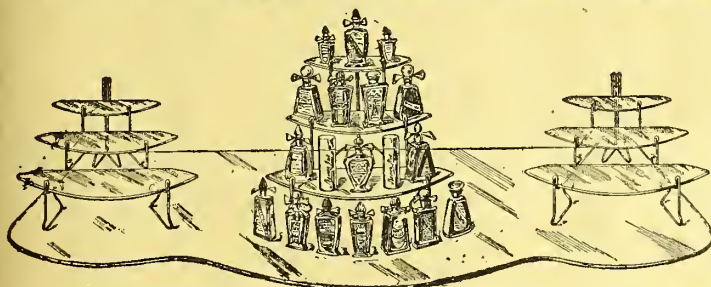
The Proprietors call attention to the value of their Preparation as a safeguard against chills and other similar pre-disposing causes of influenza in infants and young children.

W. WOODWARD, Ltd.,
79/81 Fortess Road, London, N.W.5.

W. WOODWARD, Ltd., purchase their used bottles from customers, and invite communications from members of the trade who may be able to supply them.

The Proprietors desire to express their regrets that restrictions upon supplies in various directions have seriously retarded deliveries of "Gripe" Water." Under the improved conditions of Peace, Messrs. Woodward hope to overtake all arrears in the home trade. They regret that their Colonial Customers have been still more inconvenienced. "

ASTRAL DISPLAY STANDS ARE MUTE MAGNETIC MONEY MAKERS



Send for Booklet, which will tell you all about it.

A. F. CORBETT & CO., Chemists' Complete Outfitters, 151 High St., Harborne, Eng.

To the Trade

WE MAKE

Screw Caps

IN ALL SIZES & METALS

Send inquiries to

A. F. CORBETT & CO.

51 High St., Harborne, Eng.

ATKINSON & BARKER'S ROYAL INFANT'S PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON, Ltd.
13 Wesley St., Grosvenor St., C-on-M., MANCHESTER.

**DOES
NOT
CONTAIN
any
SCHEDULED
POISON.**



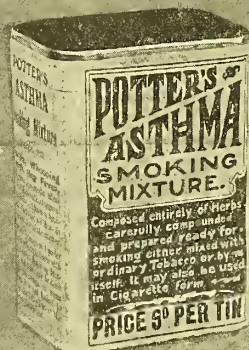
1/6 TINS
(P.A.T.A. 1/6)

14/- DOZ.
NET.

POTTER'S Asthma Cure

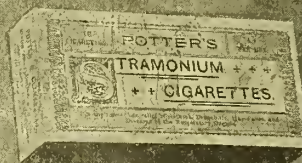
ADVERTISED
EVERYWHERE

GIVES INSTANT
RELIEF



1/6 BOXES (P.A.T.A. 1/6)
14/- DOZ. NET.

9d. TINS (P.A.T.A. 9d.)
7/- DOZ. NET.



1/6 Boxes
(P.A.T.A. 1/3 net) 10/- doz.
9d. Boxes (12 in box) 6/-

POTTER & CLARKE LTD.
60-64 Artillery Lane
LONDON E

AND AT
24 LUNA STREET, GREAT ANCOATS, MANCHESTER.

ICY-HOT VACUUM FLASKS



Pint 11/6 each

Imitation Leather,
Enamel on Metal.

Pint Refills, 9/- each.

WE are pleased to inform our Customers we have just received a consignment of the above well-known Flasks and in the two most popular kinds.

Delivery Immediate.



Pint 14/9 each

Nickel Plated

Corrugated.

HENRY C. QUELCH & Co.

4 & 5 Ludgate Square, London, E.C.4.

A SPA IN THE HOME

Yields 60 %
profit to
all Chemists



EUSALAX

A pleasing Mineral Aperient & Tonic.

For sufferers from Rheumatism, Gout, Sciatica, Neuritis, Lumbago, Eczema, Dyspepsia and Constipation.

"EUSALAX" is a careful and scientific combination of the beneficent mineral salts of some of the most famous Continental spas. It is one of the greatest solvents of Uric Acid, a natural stimulant to the liver, kidneys and intestines, and a sure blood purifier.

"EUSALAX" is being extensively advertised and is sure to prove a strong selling line.

Retailed at 1/- per box

Trade terms 7/6 per doz. boxes
(Carriage paid)

GEORGE WALKER & SON, Ltd., Reid St., Bridgeton, Glasgow
(ESTABLISHED 1860)

Note
the
DatesT.M.
REGD.Note
the
Dates

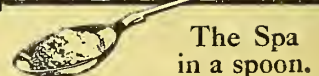
Special Bonus Offer to Chemists

For every Carriage-paid Order of 3 dozen HARLEY'S THREE SALTS received from SATURDAY, Feb. 15, to SATURDAY, March 1, 1919, six of the packets will be sent **FREE** for a 14-days' Window Display. 3 dozen, 19/-, sent for the price of 2½ dozen—15/10. Cash with Order.

The Original Harley's
THREE SALTS

Retail at 9½d., thus this offer yields 60% profit, P.A.T.A. Being attractively packed and extensively advertised in the weeklies, it has proved a ready seller. Send on your order now to the Sole Maker—

HARLEY, MANUFACTURING CHEMIST,
Perth, Scotland.

T.M.
REGD.The Spa
in a spoon.

L. Rozen & Co.

36/37 MINCING LANE, E.C. 3

Merchants and Manufacturers.
Crude Drugs, heavy and light
Chemicals, Seeds & Essential Oils

Telegrams: "Ocnzorle."
Telephones: 3263-4 & 5986 Avenue.

Can offer favourably from stock:

SENNA, TINNEVELLY
and ALEXANDRIAN
HENBANE LEAVES
Egyptian and Russian
GUM ARABIC
LICORICE ROOT
GENTIAN ROOT
ERGOT OF RYE

RUSSIAN:

ANISEED OIL
CALAMUS ROOT
CANTHARIDES
WORMSEED

CARBOLIC ACID
CRYSTALS 39/40°

Oriho, Meta & Para Cresols,
Pure Naphthalene, Pure Benzol,
Pure Toluol and Xylene.

HENRY ELLISON, LTD.,
Cleckheaton, YORKS.

Telegrams: "Ellison Cleckheaton."
Telephone: Nos. 237, 238 Cleckheaton.

SACCHARINE

INSOLUBLE - GUARANTEED U. S. P. 550.

Spot and Forward Deliveries

Also METHYL SALICYLATE.

WRITE

GASTON, WILLIAMS & WIGMORE, Ltd.

20 BISHOPSGATE, E.C. 2.

TELEPHONE : London Wall 3040.

T. A. : "Gastonorge, London." (1)

Saccharin Tablets

(UNCONTROLLED).

$\frac{1}{2}$ -gr. 330 strength @ 10/- per 1,000

$\frac{1}{3}$ -gr. 330 " @ 14/- "

$\frac{1}{2}$ -gr. 330 strength @ 17/- "

Not less than 2,000 tablets supplied. Registered postage 8d.
10,000 upwards, post paid. Cheque with order. Any quantity
supplied by return of post.

Samples on application. Bulk GUARANTEED to sample.

W. BENNISON & CO.

59 MARK LANE, LONDON, E.C. 3.

Telephone: Ave-3727. Telegrams: "Polychem, Fen, London."

Aspirin Tablets

in Bulk.

5 grs. 13/- per 1000.

In bottles of 25, 6/-, of 50, 10/-, of 100, 19/- per doz.

Saccharin Tablets $\frac{1}{2}$ grain 6/- per 1000.

" " $\frac{1}{3}$ " 8/- " 1000.

" " $\frac{1}{2}$ " 11/- " 1000.

Cash with order. Postage free.

Special prices for larger orders.

THE B. & A. TRADING CO.

Alkima Works, 65 Regent's Park, Road, LONDON, N.W. 1.

SACCHARIN TABLETS

FROM BRITISH-MADE
SACCHARIN

**NOW CHEAPER
THAN SUGAR**

All strengths supplied in Bulk or
S.-C. Bottles. Prices on application.

Customers' own labels if required.

**The Cooper Laboratory
WATFORD**

GOLD MEDAL, XVIIth International Congress of Medicine, 1913.

THE NON-IRRITANT

LOCAL ANÆSTHETIC

Recommended by H.M. Home Office as the best and most efficient

SUBSTITUTE FOR COCAINE.

NOVOCAIN

CHEAPER THAN COCAINE,

(NO LICENCE REQUIRED.)

As supplied for the past 10 years. AT PRE-WAR PRICES.

THE SACCHARIN CORPORATION LTD.,

Pharmaceutical Department, 36, 37 Queen Street, Cheapside, London, E.C. 4.

War Office,
India Office,
Crown Agents for the
Colonies,

Canadian Government,
American Government,
New Zealand Government,
French Government,

CONTRACTORS TO
London County Council,
Metropolitan Asylums Board,
Belgian Government,
Italian Government

Portuguese Government,
British Red Cross Society,
French Red Cross Society,
&c., &c.

Dublin Depot: The Pharmacy, Glasnevin (Mr. B. R. Allshire, M.P.S.I.)

FOR
Acids SULPHURIC
HYDROCHLORIC
NITRIC
Resorcin
Mercurials
Cascara Bark
Saccharin
Chloral Hydrate

Ask BERK

F. W. BERK & CO., Ltd.

1 FENCHURCH AVENUE, LONDON.
Works—STRATFORD and MORRISTON.

Telephone: 4032 Ave. Telegrams: "Berk, Phone, London."

CHEAPEST HOUSE

FOR

**Indian Drugs, Costus Root,
Senna Leaves, Myrobalans,
Calumba Root,
Radix Chiretta, etc.**

SAMPLES AND PRICES ON APPLICATION.

NAROTAM, GIRDHAR & CO.
BOMBAY 2.

ESTABLISHED 1871.

Telegraphic Address:
"Toothache Sheffield."

BRITISH SACCHARIN TABLETS

3 grain in 1.

Made, Tested and Guaranteed by Ourselves.
Full Strength.

In Dampproof Packets of	Marked to Sell at
100 at 12/6	1/6½
200 „ 24/6	3/-
500 „ 60/-	7/1

Bulk 1 lb., fully 7000, £3 5s. 0d.

Special Quotations for Quantities.

Cash with Order.

Carriage Paid.

G. CARR & CO., Ltd.

Manufacturing Chemists,

Wilkinson Lane, SHEFFIELD.

A still further GREAT REDUCTION in the price of

Saccharin Tablets

	Full Strength. ½ gr., 330 in 1.	Half Strength. ¼ gr., 330 in 1.
1 lb., approx. 7,000 tablets	60/-	32/- per lb.
2 lb. „ 14,000 „	59/-	31/- „
5 lb. „ 35,000 „	58/-	30/- „
Less than 1-lb. lots	9/-	5/- per 1000.
Packed in boxes of 100	11/-	6/3 per doz. boxes.

Terms: Net Cash with Order.

Post Paid on £1 value upwards.

SACCHARIN POWDER, "Monsanto 550."

1 lb., 160/- 10 lb., 156/- 25 lb., 152/- 50 lb., 150/- per lb.

Duty paid.

Net Cash with Order.

Delivered Free.

BROOK, PARKER & CO., Ltd., Manufacturing Chemists, Ashfield, Horton Road, BRADFORD.

Contractors to H.M. and the U.S.A. Governments.

Saccharin Tablets.

½ gr., 330 in 1. Guaranteed the Genuine Article.

£3 10 per lb. Cash with Order.

Delivery per return. Reg. post paid. Special quotations for large quantities.

HENRY BOWN, Chemist, 154 Cemetery Road, SHEFFIELD.

Telegrams: 2742 Sheffield.

SACCHARINE TABLETS

½-gr., 330 in 1.

We propose to clear our stocks at a sacrifice, and will send, registered post paid, any quantity from 1 lb. upwards at

30/- per lb., or envelopes of 100 at 72/- per gross.

A. S. PRICE & CO., Ltd., Blackheath, BIRMINGHAM.

DAMANCY & CO., HARROW.

SACCHARIN (MONSANTO) TABLETS

½ gr. 330 in each tablet	...	4/6 per 1000.
¼ gr. " " " "	...	6/6 " "
½ gr. " " " "	...	9/- " "

ASPIRIN TABLETS, B.P. gr. 5, 12/- per 1000.

Cash with order.

Carriage paid

SACCHARINE

50/- per lb.

(in bond) 50-lb. cases only.

(Monsanto 550)

180/- per lb. From Stock—any quantity.

Special quotations for large parcels.

VICTOR E. HANNA, M.P.S.I.,

70 Lower Mount Street, Merrion Square, DUBLIN.

FOR SALE.

HARD WHITE BLOCK.

10 cwt. Redistilled STEARINE, 120/122 M.P.

3 tons NEUTRAL FAT - 126/128 M.P.

190/- per cwt., or nearest bid.

Box 236/34, Office of this Paper.

CAMOMILES.

WHOLESALE ONLY.

F. J. CARMICHAEL & CO.,

17 Water Lane, LONDON, E.C. 3.

More Customers

The
Beverage



of
Health

Will call at your store if they know you stock Vi-Cocoa because this food beverage of the people is in great demand as a tonic restorative in cases of mental and physical overstrain.

Display Vi-Cocoa in your window—it will attract many who would otherwise pass you by. Write for trade terms to-day—they are particularly favourable.

Vi-Cocoa

The Watford Mfg. Co. Ltd.
Delectaland — Watford.

SPRING'S TABLE HONEY

"Heather,"
"White Clover,"
&c.

Specially refined and
packed for table use.

SPRING & CO., LTD.
BRIGG LINCOLNSHIRE.

The largest collectors and
packers in Great
Britain.



WINOX Wine Food

is a high-class
Pharmaceutical
Wine, containing
all the food ele-
ments of Meat, Malt
and Unfermented
Grape Juice.

Unsurpassable for In-
fluenza; invaluable for
Anæmia, Lassitude, Neu-
ralgia, Nerve and kindred
troubles.

Winox will stand any
climate, and contains no
harmful drugs.

Price £/6 per bottle retail.
Chemists who do not already
stock Winox should apply
for price to WINOX LTD.,
Richmond, Surrey.

"GLACIALINE"

The Original and Most
Effective Food Preservative

The only Food Preservative that has ever been publicly
awarded Gold and Silver Medals and Certificates of Merit
for Purity and Harmlessness.

TRADE MARK



REGISTERED.

Full directions for use enclosed in every package.
Packed in 6d. and 2/- Packets and 2/3 Canisters.

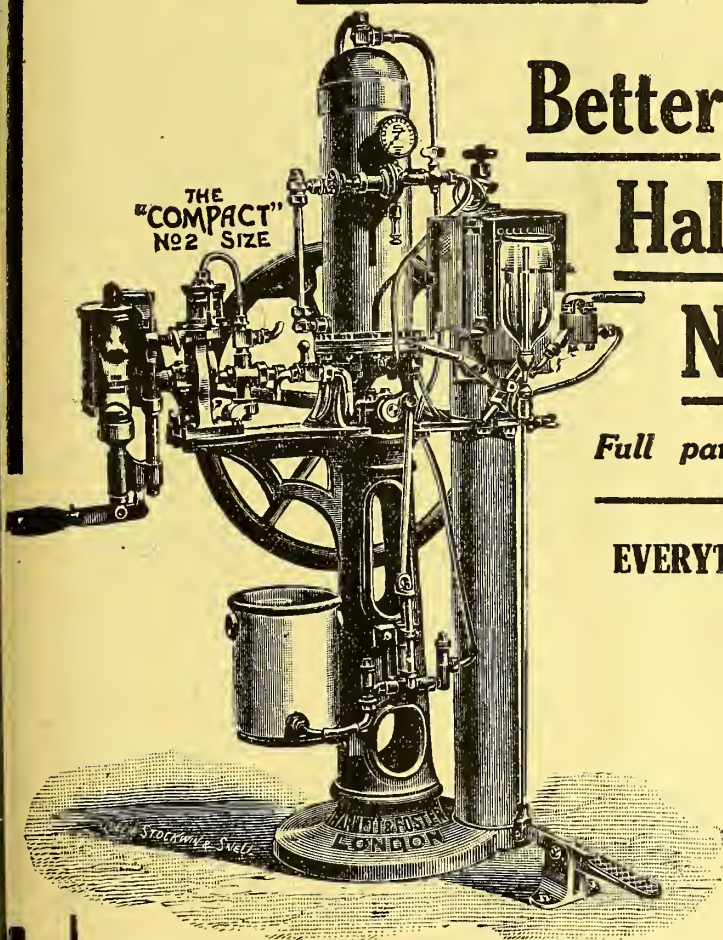
FAVOURABLE TRADE TERMS UPON APPLICATION
TO THE

Sole Proprietors and Manufacturers:

BURTON, BAKER & CO.
16 EASTCHEAP, E.C. 3.

Fill your Syphons at 120 lbs. Pressure

THE
"COMPACT"
No 2 SIZE



Better Waters
Half Usual Cost
No Breakage

Full particulars on application.

EVERYTHING FOR BOTTLING.

We supply every machine, article and appliance needed for the manufacture of aerated waters. Our lists, including the "Red Club" monthly price list of Soluble and Fruit Essences, Essential Oils, Mineral Water Salts, Colourings, Chemicals, and Drugs, posted free anywhere.

We are also makers of the "London" Syphons, and can supply from Stock.

BARNETT & FOSTER

ENGINEERS

(Proprietors of GALLOWAY BROTHERS),

(Dept. N 2) Niagara Works, London, N. 1.

And at BOLTON, LANCS.

Telegrams: "Drinks London."
"Soda Bolton."

Telephones: London: North 1605.
Bolton 545.

No. 265.

Trade Mark.

Established
134 Years.**R. J. Fullwood & Bland**

The OLDEST and LARGEST Firm of

ANNATTO, RENNET

and BUTTER COLOUR Manufacturers in GREAT BRITAIN

GERMANS have never had any interest whatever in R. J. F. & B.'s firm, which has been carried on by British partners and with British capital since it was established in 1785. Others who claim to be the only makers of Rennet in England CANNOT SAY THIS.

R. J. F. & B. have secured large quantities of Calves' Stomachs, and are now open to book orders for any quantity of Rennet.

Sole Addresses:

31, 33 & 35 Beviden St., Hoxton, London, N. 1
and Rennet Works, Ellesmere, Salop.

**PURE
DRINKING WATER.****The
Pasteur
Chamberland
Filter.**OFFICIAL GOVERNMENT
STATEMENT:

Wherever the PASTEUR
FILTER has been applied,
TYPHOID FEVER has
disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.

5 WHITE STREET, FINSBURY,
LONDON, E.C. 2.

**G. C. Starup's Danish Cheese
RENNET EXTRACT**

STARUP'S REAL DANISH CHEESE RENNET EXTRACT is guaranteed to be made from finest calf vells only, and does not contain Pepsin or other kind of substitute.

Chemists and Druggists, please ask for G. C. Starup's real Danish Rennet Extract, Annatto Cheese Colour and Butter Colour.

PRICES ON APPLICATION.

G. C. Starup's Chemical Works, Copenhagen, K., Denmark.

**Do You Sell
Sister Luras Food?**

The question is often asked nowadays. The Chemist who does not stock Sister Luras Food is missing a good line.

Sister Luras Food is achieving great success as a preparation for weakly babes and for invalids and the aged.

It makes milk digestible and is invaluable in cases of malnutrition.

It is a thoroughly reliable line and one that brings a handsome return.

Price 1/- & 2/6 per tin.

Samples and advertising matter free on application.

SISTER LAURAS INFANT FOOD CO., Ltd., GLASGOW.

Cable Address: "Selgog London."
Telephone: 2215 London Wall.

ESTABLISHED 1870.**JOHN LORIMER**

10 City Road, London, E.C. 1

Drugs & Chemicals for all Markets.

Inquiries invited from Wholesale & Manufacturing Trades.



SOLAZZI

SOLAZZI LIQUORICE

is entirely the product of our ally, Italy. Is handled in this country by British firms, and has, therefore, been kept on the market through the usual channels throughout the war. Germany, which was largely interested in the liquorice trade, will doubtless try to re-enter our markets.

The Manufacturers appeal to the Trade to continue to support SOLAZZI, in the manufacture and sale of which no enemy alien has any interest.

□ □

The CHEMIST AND DRUGGIST[®] says :

"The most esteemed of all."

The LANCET says :

"The above brand has long been known to be of standard purity. We found the specimen to be completely soluble in water, and entirely free from impurities of any kind. It is, therefore, well adapted for the pharmaceutical purposes for which it is so useful, while as a popular demulcent it is both safe and reliable."

The CHEMISTS' BRAND

UNIQUE PRODUCTIONS IN

Labels AND Cartons

BY

Thomas Waide & Sons.

SEND YOUR ENQUIRIES.

A charge of 10/6 is made for Set of Samples to Colonies, which we credit on Order for £10 and upwards.

ADDRESS:—

**KIRKSTALL ROAD,
LEEDS.**

Spring Cleaning

Chemists dealing in decorating materials will do well to write to us for prices.

We are actual Manufacturers of

STIFF AND READY MIXED PAINTS.
SANITARY WATER PAINT (in paste form).
SANITARY DRY DISTEMPER (in powder form).
VARNISHES, ENAMELS, STAINS, POLISHES,
INK POWDERS, DYES, WOOD STAINS, &c. &c.
SPECIAL LINES IN DRY COLOURS, PACKED
GOODS, DOMESTIC AND SPRING CLEANING
PREPARATIONS.

Special Offer.

Rayolene Black Japan

Exactly as supplied to Coach and Carriage Painters. The best preparation for Cycles, Fire Ranges, Mail Carts, and all wood and ironwork. Free from methylated spirit.

	9d. tins.	$\frac{1}{2}$ -pint tins.	Pint tins.
Retail at	9d.	1/6	2/9
Special price	6/6	12/-	22/6 per doz.

One box containing 4 dozen 9d. size and
2 dozen 1/6 size sent, carriage paid, box
free, for 45/-

**TEXALO MANUFACTURING CO.,
Trafalgar Square, Blackpool, Lancs.**

WOOD PULP VESSELS, Ltd.

MANUFACTURERS & EXPORTERS OF

WOOD PULP VESSELS

FOR CONFECTIONERS, CHEMISTS, GROCERS,
JAM MANUFACTURERS, DAIRIES, &c. &c.

OFFICES AND FACTORIES:

233-235 Queen's Road, BATTERSEA, LONDON, S.W.

GALLIC ACID

English Manufacture.

SKILBECK BROTHERS,

205 Upper Thames Street, E.C.

Telephone Nos: BANK 541 & 542.

DAMANCY & CO., HARROW.

DIGESTENZYMES.

Prescribed by more than 800 physicians. The well-known preparation for indigestion, flatulence, derangements generally of the stomach and intestines, inflammation and ulceration of the stomach and in wasting diseases. Retail prices (bottles free, carriage paid):—Tablets, 25, 9d.; 100, 2s. 3d.; 500, 10s.; 1,000, 19s. Elixir (Concentrated 1 to 7) $\frac{1}{2}$ lb., 3s. 6d.; 1 lb., 6s. 6d.; 7 lb., 6s. per lb.

'Please send me a winchester Elixir Digestenzymes. I cannot get on without it' —, M.D.Lond., M.R.C.S., L.R.C.P.

GELATINES

FINE LEAF GELATINE
PURE CALF

"ALBION" BRAND

(In 1 lb. Packets.
112 × 1 lb. Packets to Case.)

MADE IN ENGLAND.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

Samples on application from

OURY, MILLAR & CO.,

Telegrams:
"OLMENTH,
LONDON."

9 Mincing Lane,
LONDON, E.C.

Telephone:
4978 AVENUE.

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES. — Gums Arabic and Tragacanth as imported or finely powdered.**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Melens,
LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.**SHADEINE****FOR COLOURING GREY HAIR**

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial Size 4d., per post 10½d.; Medium, 1/4, per post 1/7; Large, 3/6, per post 4/.

8d. size, 2/- doz.; 1/4 size, 12/- doz.; 3/6 size, 28/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.**CACHETS "FINOT"**

(White or Coloured),

With Inscriptions in any desired**tint: also Plain or Embossed.**

"Beautifully made and the inscriptions give them

a distinction all their own." —C. & D.

"Perfection of Cachets." —Lancet.



These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON,
In 17 Sizes, to fit the various types of Cachet Machines.**DISINFECTANTS****OF ALL KINDS****Cheapest Makers of Co-efficient Acids and Fluids****HENRY ELLISON, LTD., CLECKHEATON, YORKS****CAPSICUM WOOL**Attractively Packed. **7/9** per dozen Boxes.

PREPARED BY

THE GALEN MANFG. CO., LTD.

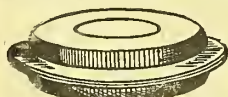
Wilson St., New Cross, London, S.E. 14.

"BRILLIANIA"

The World-famed Enamel for Grey & Faded Hair. Absolute, safe and natural.

3/6 size, 37/- doz.; 6/6 size, 68/- doz.;
12/6 size, 132/- doz.

Largely Advertised. Ask your Wholesaler.

THE BRILLIANIA CO., 37 Sloane Street, S.W. 1.**CACHETS****WEPS.**

The Best Quality.

WEST-END PHARMACY SUPPLY
(R. Rios)

231 REGENT ST., LONDON, W. 1.

Cachets. All sizes, plain and embossed
Orders accepted for coloured & printed.**BLENOSAN CAPSULES**

(Kava-Kava & Santal Compound).

Medicinal Capsules. Fine Chemicals.

J. W. PINDAR & CO. Druggists' Engineers.**PILL MACHINERY (Hand & Power).**

Hand Pill Machines (for Chemists), Tablet Sugar Coaters (with Hot-Air Blowers), Pill Coaters, Counters with Shoot, Tincture Presses, Emulsifying and Mixing Machines, Percolators, Ointment Mills, Drug Mills, "Eternite" Ovens, &c.

Other Machinery for Manufacturing Druggists and Chemists.

BROCKLEY, LONDON, S.E. Telephone: New Cross 1068.**John E. Raworth,**

Chartered Patent Agent,

The Old Mansion House,
73 Cheapside, E.C. 2.

AND

Queen Anne's Chambers,
Westminster, S.W. 1.TO
SELL,
MERELY
SHOW**Quin Quenna**

BETTER THAN A SHAMPOO

More heavily advertised than ever, and sales still easier, now recognised by ladies &c. that it is the only preparation that puts a "wave" in the hair, besides growing and beautifying it.

4/- PER DOZ

A 6 dozen decorated carton with one dozen Bonus to your address at once. Carriage Paid.

P.A.T.A. 6/- EACH**43%**

P.A.T.A. PROFIT FOR YOU

CHRISTY'S Old Swan Lane, LONDON, E.C. 4.**C. MELIN & CO.**

ESTABLISHED

1865

7 India Street, Crutched Friars, London, E.C.

supply **GLASS AMPOULES, TUBES**
and **LAMP BLOWN ARTICLES**

OF EVERY DESCRIPTION. PROMPT DELIVERY.

DIRECT FROM THE WORKS. :: WHOLESALE & EXPORT.

JABEZ WOLFFE'S CHANNEL EMBROCATION

1/3 & 3/-

CASH
TERMS **25 %**
SELLING DISCOUNT.



1 GROSS or
 $\frac{1}{2}$ " packages

DRAWS PAIN FROM
PEOPLE suffering from
Influenza, etc.

Handlers
Distributors
CHEMISTS
The people

DRAW
DRAW
DRAW
DRAW

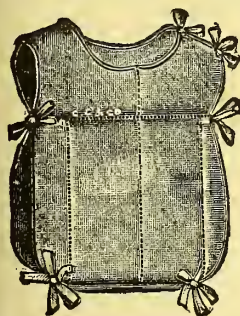
profits.
good repute.
ever-increasing sales.
satisfaction.

FULL PARTICULARS FROM

THE LONDON HYGIENIC CHEMICAL CO., LTD., 37 EASTCHEAP, E.C.3.

DRAWS PAIN FROM PEOPLE.

Winter's Chills are here, therefore stock



SHOWCARDS
AND
ADVERTISING MATTER
SUPPLIED
WITH EACH ORDER.

"ZUDOR" JACKETS

*Made in six stock sizes.
Any special size made to order.*

IN TWO QUALITIES.



Facsimile of Showcard.

No.			COTTON		WOOL		LAMB'S		WOOL	
			Per doz.	Retail each	Per doz.	Retail each	Per doz.	Retail each	Per doz.	Retail each
1	...	8 in.	...	9/6	...	1/3	...	16/-	...	2/-
2	...	10 in.	...	12/-	...	1/6	...	20/-	...	2/8
3	...	12 in.	...	16/6	...	2/-	...	24/-	...	3/4
4	...	15 in.	...	20/6	...	2/6	...	28/-	...	4/-
5	...	19 in.	...	25/-	...	3/-	...	32/-	...	5/-
6	...	21 in.	...	30/-	...	3/9	...	40/-	...	5/6

Owing to the exceptionally large call we are having for
"ZUDORS," we would advise Customers to order NOW.

CUXSON, GERRARD & CO., Ltd., **OLDBURY & BIRMINGHAM.**

Harrods

POST-WAR VALUE FOR CHEMISTS

Harrods offer the following in any quantity, at much below manufacturer's present prices.

ABSORBENT COTTON WOOL

Good Quality, White.
In 1-lb. rolls, inter-
leaved. 28-lb. lots,
lb. 1/8; 56-lb.
lots, lb. 1/7½; 112-lb. lots,
per lb. ...

1/7

SUPERIOR QUALITY White, in 1-lb. rolls,
interleaved. 28-lb. lots, lb. 1/10; 56-lb. lots,
lb. 1/9½; 112-lb. lots, per lb. ...

1/9

BORIC LINT In 1-lb. rolls, 14-lb. lots, per lb. ...

2/5

ABSORBENT WHITE GAUZE

Plain White, in
6-yd. packets,
36 in. wide.
Dozen ...

9/-

*Bales extra, but returnable.
All the above sent Carriage Paid in U.K.*

HARRODS LTD Woodman Burbidge
Managing Director **LONDON SW**

NOSTROLINE

TRADE MARK, REG.

N379.

NASAL SPECIFIC

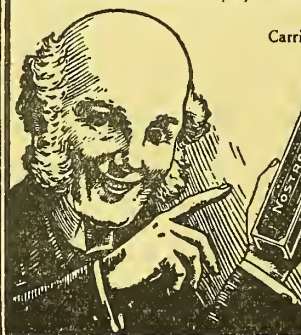
Look to your Stock!

Place orders without delay
direct or through Wholesale.

Protected at face value, 1/3

Price: 1 doz. 11/9, 3 doz. 33/9, 1 gross 135/-

Carriage Paid. Terms: Cash Net.



"NOSTROLINE"
Prevents and Cures
**COLD IN THE HEAD,
NASAL CATARRH,
HAY FEVER ETC.**
Protects against Infection.

OVERSEAS
CORRESPONDENCE
INVITED

HAROLD E. MATTHEWS & CO.
CLIFTON, BRISTOL.



BATHING CAPS

LARGE VARIETY OF.
ORDER EARLY, NET PRICES.

TWO SPECIAL LINES.

Check-Waterproof, Cir-
cular ... 7/6 doz.
Rubber, Helmet Shape,
Art Colours, "La
Victoire" ... 23/11 "
Water Wings ... 16/6 "
Air Cushions, Bed Sheetings, Enemas,
Pessaries, Sponge Bags Urinals
(Rubber), Water Beds, &c. &c.

JAMES TOMPKINS, Ltd.

(ALL BRITISH),

The Rubber House,
386 CITY ROAD, LONDON, E.C.1.
Estd. 1877. Phone: City 7640.



FOOT TROUBLES

such as Corns, Bunions, Callouses on the Sole,
Flat Foot, Cramped Toes, &c., are increasingly
prevalent owing to unaccustomed War Work.

D'Scholl's

Foot Comforts

are the result of years of experience devoted to the treatment
of Foot Ailments by Dr. Scholl, and are to-day recognised as
the most perfect corrective devices on the Market. They are
in constant demand, and all Chemists will find it profitable
to stock them.

Send for Wholesale Price List.

THE SCHOLL MFG. CO., Giltspur St., E.C.

PAXIDORM NERVE PELLETS

Powerful Nerve Sedative and Mild
Hypnotic. Absolutely Harmless and
will not create a habit. Not within
the meaning of the Diethyl-barbituric
Acid Resolution, and therefore must
not be labelled Poison.

All particulars of the Sole Manufacturers,
CLEVELEYS CHEMICAL CO.,
22/23 Gt. Tower Street, LONDON, E.C.3

SOTOL ANTISEPTIC MOUTH and THROAT WASH

and Nasal Douche.
IN CONVENIENT TABLET FORM.

Pharmacists make £4 12 profit on an outlay of £9 16s a under:

6 doz. 'SOTOL' (40's.) cost £3 16s. net yielding £1 1's. profit
6 oz. 'KLENZIT' " £3 " " £1 10s. profit
6 doz. 'HYDRO-SUCTINE' " £3 " " £1 10s. profit

or by accepting the special 'Sotol' Window Display offer
Pharmacists secure £4 2s. 8d. profit on an outlay of only £6 13s. 4d

INQUIRIES, &c., TO THE

WESTERN DENTAL MFG. Co. (1914) Ltd.,

74 Wigmore St., LONDON, W. 1.

Laboratory & Works—WEST EALING, W. 15.

POCKET SPITTING FLASKS

FOR USE IN

PREVENTING THE SPREAD OF TUBERCULOSIS, &c.

MADE IN DARK BLUE GLASS.



No. 1.
Fitted with
SOLID NON-ABSORBENT
RUBBER PLUG.



No. 2.



No. 3.



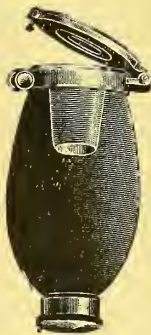
No. 4.

Fitted with SUPER-NICKELLED BAYONET SCREW CAP.

DOUBLE-ENDED



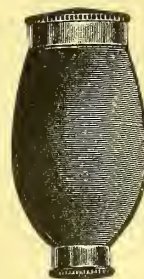
No. 1 D/E.



No. 2 D/E.



No. 3 D/E.



No. 4 D/E.

Fitted with NICKELLED SPRING-LID
FUNNEL TOP & SCREW CAP BOTTOM.

Fitted with METAL SCREW CAPS.

Illustrations one-third actual size

PRICES AND FULL PARTICULARS ON APPLICATION.

BEATSON, CLARK & CO., LTD.,

Medical Glass Manufacturers

ROTHERHAM.

People who want to buy **Mend-a-Tear**

The Week-ENDER.

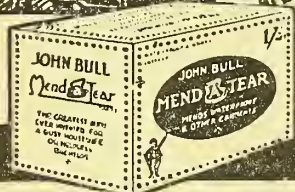


This is the sort of thing that's bound to happen because he risked bringing only one suit—as for enjoying himself now—well, man isn't born who can be a social success with a fragment of his trousers flapping in the wind. Therefore, the wise week-ender always takes a carton of Mend-a-Tear and mends "any little jag like that" in a trice. No stitching is needed, just a quick neat job the merest man can do successfully.

Thousands of little incidents like this take place every day. That's why it will pay you to stock Mend-a-Tear. It means not one purchase—but a regular demand.

Write us for particulars. And note it is packed in outer decorative cartons, containing three dozen 1/- Outfits, and as a quantity of advertising matter is sent with every Carton, it is in the Retailer's interest to order in three dozen multiples.

LEICESTER RUBBER CO., LTD.
18 Granby Mills - - - - - LEICESTER



THE **LIVERPOOL LINT CO.** 164 ALDERSGATE ST., LONDON, E.C. 1.

MANUFACTURERS OF
LINTS,
BANDAGES,
COTTON WOOLS,
SURGEONS' TOW,
CARBOLIZED TOW,
SPLINT PADDING,
WADDINGS, &c. &c.

As supplied to Home and Foreign Governments.

"IMPERMIETTE" (Waterproof)
"IMPERMIETTE" BED SHEETING.
"HEALTH" CHEST PROTECTORS.

ABSORBENT
TISSUE

Telegrams:



FIRST FIELD
DRESSINGS

"IVALINTCOL,
CENT, LONDON."

TRADE

MARK.



SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES

NAILBRUSHES From **4/9 Doz.**

COMBS LADIES & GENT'S " **7/6** "

POWDER PUFFS " **1/6** "

OF ALL DESCRIPTIONS.

Can now be supplied from STOCK.

INQUIRIES SOLICITED.

WRITE OR PHONE:—

ARTHUR BERTON, LTD.,

Manufacturers,

Offices and Warehouse: 15/17 Worship Street,
LONDON, E.C. 2.

Telegrams:
"Aybelim, Finsquare, London."

Phones:
London Wall 567. City 398

SURGICAL DRESSINGS



W. G. TAYLOR (A Branch of Southall Bros. & Barclay, Ltd.)
 Charford Mills, BIRMINGHAM. Lint Works : BROMSGROVE.

Country Orders and Inquiries to Birmingham.

London

„ „

to St. Michael's House, Basinghall St., E.C. 2.

Telephone: CENTRAL 236.

ALL WHO SEEK A LINE OF
EXTRA QUALITY, FINEST VALUE AND BEST BUSINESS

CAN FIND EXACTLY WHAT
 THEY ARE LOOKING FOR
 IN THE FAR-FAMED

OYLER'S



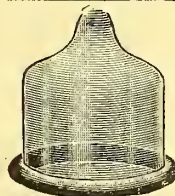
It will Pay you to write us and get our full details, Prices and Samples. No matter whether you are Sundriesman, Shipper, Wholesaler, Retailer or maker-up of Baby Soothers or Feeding Bottles, this line is full of merits that will bring you most satisfactory Trade.

Teats made from highest grade Ceylon Rubber, toughest, most supple, transparent and durable.

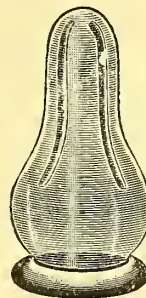
ALWAYS GROWING IN DEMAND BECAUSE MOST HYGIENIC, BEST FOR BABY'S HEALTH, EASIEST TO CLEAN AND STERILISE, BEST UNDER ALL TESTS, INCLUDING BOILING, STAND ALL CLIMATES, BEST FOR BOTH HOME AND EXPORT TRADE.

SEAMLESS RUBBER
TRANSPARENT TEATS

Here is a small
 selection from
 our great variety



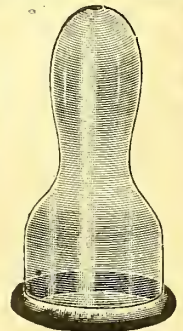
No. 45.



No. 50 R.



No. 4 R.



No. 90.

OYLER'S

35 New Cavendish St., Harley St., LONDON, W. 1.

Phone: MAYFAIR 681.

Wire: "OYLERISM. WESDO. LONDON."

GLASS FLAT-BOTTOM TUBES

Write for quotations for flat and
round bottom tubes, all sizes.

Orders executed promptly.

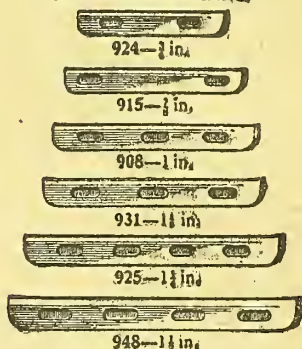
JOHN TYE & SON, Manufacturing Chemists,
Glass Blowers.

457 CALEDONIAN ROAD, LONDON, N. 7.

ENGLISH MAKE

Metal Clips,

FOR COLLAPSIBLE TUBES



MADE IN ENGLAND BY
A. S. Cartwright Ltd.,
West Heath Works,
Northfield, Birmingham.

WE DO NOT MAKE TUBES—ONLY
THE CLIPS.

WE STOCK, AS A RULE, 3,000 GROSS.
Your inquiries, please.

ASBESTOS FILTER FIBRE

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.

GIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

PURE, NEUTRAL AND INSOLUBLE.

Write for Samples and Prices to

TURNER BROTHERS ASBESTOS Co., Ltd.,
ROCHDALE, England.

Enamelled Hospital Requisites



Aqua-Pura Water Still.



Spitting Cups, Douches, Bed Pans, &c.

HIGHEST QUALITY,
PERFECT PACKING.

**BRITISH
MANUFACTURE.**

Write for
Catalogue.

ORME, EVANS & CO., LTD. Works: Wolverhampton, England.
Showrooms—London, Sydney, Capetown, Montreal, Vancouver.

AIR CUSHIONS.



Fig. 1194.

Fig. 1194.—The "EMPIRE," red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each ...	7 0	8 0	9 0	10 0	11 0	12 5	14 0

Fig. 1354.—Air Cushion, sateen covered, reeded

Sizes

 14×10 15×12

18 × 14 in.

Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case, with clasp ...

super quality

... 6 6

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Splints, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.



INDIA RUBBER

[See p. 429 "C. & D." Diary, 1917.

(Red Mineralized and Arabesque).

SURGICAL, CHEMICAL, DOMESTIC ARTICLES, SYRINGES, ENEMAS, WATER BEDS.

Manufacturers of every description of **INDIA RUBBER**, Wholesale & Export only.

WM. WARNE & CO., Ltd., 29 Gresham Street, LONDON, E.C. 2.



THERMOMETERS AND HYDROMETERS

Clinical and Chemical Thermometers of high quality a special feature.

A. T. REYNOLDS, Barnsbury Hall, Barnsbury Street,
LONDON, N. 1.

LONDON, N. 1.

Immediate Delivery.

MERCURY bought to any amount for cash.

Wholesale and Export.

E. YOULDON, LTD.

MANUFACTURERS OF

GLASS BOTTLES

TREBY ST. (late Carter St.),

Maplin St., Mile End, London, E.

ESTABLISHED 1840.

Telegrams: "YOULDON, BOWBUR, LONDON,"

Telephone: EAST 132.

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S Great Remedies for the Horse

Protected Prices
(P.A.T.A.)

HARVEY'S

Koppos Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Hair Restorer (Human).

Of all the leading Druggists' Sundries Houses:
HARVEY & COMPANY, Ltd., Dublin.

DANYSZ VIRUS

Is on the P.A.T.A. List



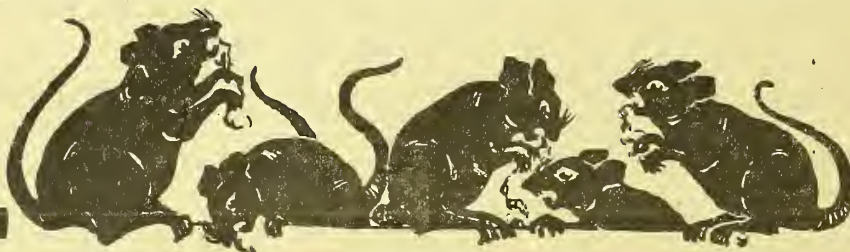
Retail Prices:
2/- Per Single Tube
5/- For Three Tubes

LEAVE YOU A
PROFIT of
75% and 50%
RESPECTIVELY.

LIQUID VIRUS
for large applica-
tions at 6/- per
quart bottle, mak-
ing about 5 lb. of
bait.

SHOWCARDS—
Dummy Boxes, Clockwork
Cats for Window Display,
Circulars, Postcards, &c.,
on application.

Through your Wholesale House, or direct from
DANYSZ VIRUS, LTD.,
(Dept. G A), 52 Leadenhall Street, LONDON, E.C.



A PLAGUE OF RATS.

The call to exterminate Rats is being heard everywhere. In some districts they are much worse than others. The loss resulting from their depredations is well known and felt keenly. Now is the time to push

"Finest thing obtain-
able for the purpose."

Mr. TATLOW, Pasture
Tops Farm, Fenny
Bentley, Ashbourne,
writes: "Please forward
another 2/- tin of
'Rodine' for destroying
rats. I believe it to be
the finest thing obtain-
able for the purpose."

"**RODINE**"

the proved and highly successful Rat
Poison. It ensures satisfaction always—
both to seller and user. Get it direct,
on best terms; nearly 100% profit.

HARLEY
Manufacturing Chemist,
PERTH, SCOTLAND

"Getting well over the
Rat plague."

Mr. BROWN, Dunglass,
writes: "Your 'Rodine'
makes a clean sweep.
We have had excellent
results. I am glad to
say we are getting well
over the Rat plague in
this district."

Export Agents—

Tozer, Kemsley & Millbourn, Ltd.
84 Fenchurch St., London, E.C.3

THE EFANDEM CO. LTD.

BRITISH
"TEC"
MAKE

Manufacturers
of T.E.C. Goods
INCLUDING

BRITISH
"TEC"
MAKE

**Electric Pocket Lamps, Torches
Hand Lanterns, Dry Batteries
etc., etc.**

CHIEF OFFICES AND WORKS: **FALLINGS PARK, WOLVERHAMPTON**

Telegrams—"Efandem"

Telephone—1123

LONDON—22 NEWMAN ST., OXFORD STREET, W.1

MANCHESTER—18 QUEEN ST., ALBERT SQUARE.

AMPOULES.

JOHN BELL & CROYDEN, Ltd.,

Wigmore Street, W.1.

Specialise in Ampoule Filling.

CHEMISTS' SPECIAL FORMULÆ PREPARED
ACCORDING TO REQUIREMENTS.

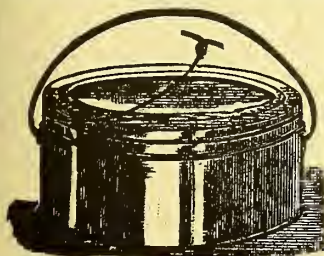
Special Quotations for Large Quantities.
SEND FOR PRICE LIST.

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.

Manufacturers
for the
Chemical Trade.

TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.



**Patent Air Tight Slip-lid Tin
for Export.**

Prompt Deliveries Assured.

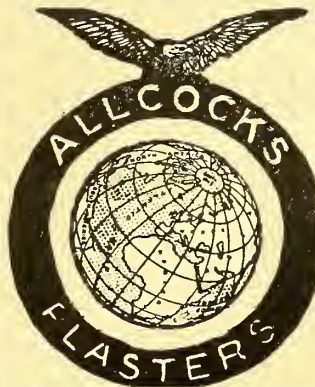
ESTABLISHED 1847,

Allcock's PLASTERS

A REMEDY OF 70 YEARS' STANDING.

**Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills**

*The
Three
Reliables.*



Prices and Terms
on
application to

**ALLCOCK . . .
MANUFACTURING
COMPANY . . .**

22, Hamilton Sq.,
Birkenhead,
England.

"Sold all round the World."

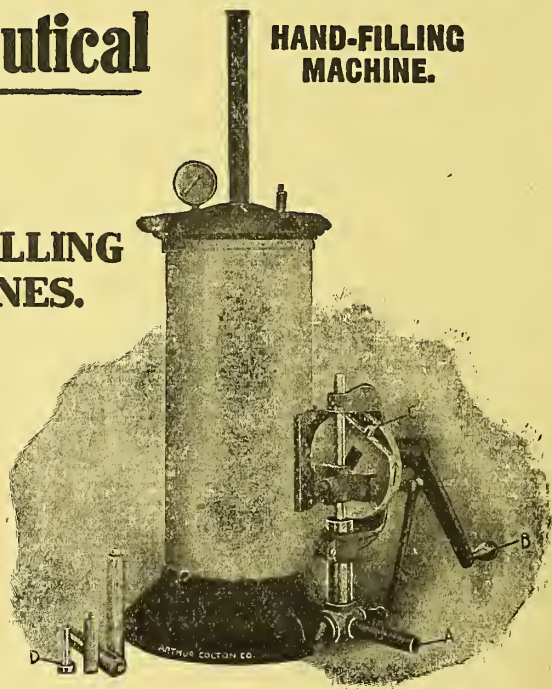


Colton's Pharmaceutical Machinery.

COLLAPSIBLE TUBE FILLING
and CLOSING MACHINES.

TABLET AND
PILL PLANT,
etc.

HAND-FILLING
MACHINE.



JOHN J. GRIFFIN & SONS, LTD., KINGSWAY, LONDON, W.C.

TABLET MACHINERY.



OINTMENT MILL.

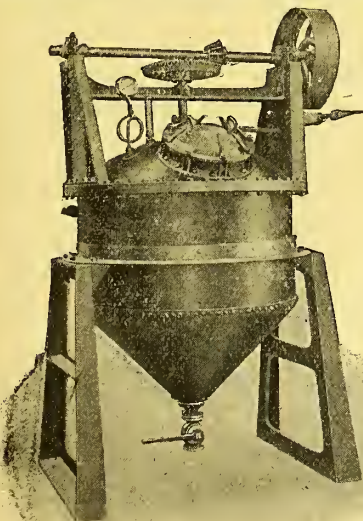
Machines in eight sizes suitable for all requirements for Tablets from 2 inches diameter to Hypodermics; also for Cubes, Octagons and fancy shapes.

PUNCHES AND DIES FOR ANY MAKE OF MACHINE.

Ointment Mills, Gelatine Pill Coaters, Gelatine Capsule Machinery and all general Pharmaceutical Machinery.

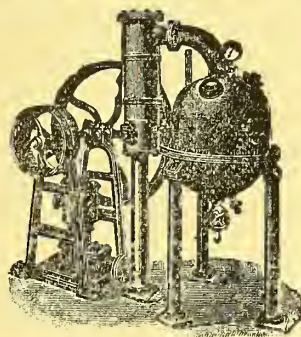
S. W. WILKINSON & CO.,
ENGINEERS LEICESTER.

COPPER PRESSURE VESSEL, or DIGESTOR WITH ROUSING GEAR



DIGESTORS & AUTOCLAVES for all purposes.

JOHN DORE & CO. *Coppersmiths and Chemical Engineers.*
28-30 HIGH STREET, BROMLEY, E. 3.



STILLS, VACUUM STILLS, VACUUM PANS.
EVAPORATING PANS.
AUTOCLAVES AND DIGESTORS.
SPECIAL APPARATUS AND PLANT
FOR MANUFACTURING CHEMISTS.

SOLE MAKERS of BENNETT'S PATENT 'IDEAL'
ANNULAR FILM CONDENSERS.
SHEARS' PATENT MULSER.

BENNETT, SONS & SHEARS, LTD.
ENGINEERS & COPPERSMITHS,
43 & 44 Shoe Lane, LONDON, E.C. 4.

WILLS' UNIVERSAL POSTAL SYSTEM

For the QUALIFYING PRELIMINARY and APOTHECARIES' HALL EXAMINATIONS. FEE £1 1s.

This system has been in operation for 45 years, and has been found to be a most complete and unbounded success. By its means a student residing in any part of Great Britain may be prepared with almost equal facility with those who, living in London or other large cities, are able to attend a regular course of instruction; and thus it will be seen that this system is eminently applicable to all country students.

"THE CHEMIST AND DRUGGIST."

"Wills' Universal Postal System is really world wide, for Mr. G. S. V. WILLS, 190 Clapham Road, London, S.W., the originator, has extended it to cover all pharmaceutical examinations in the British Empire at an inclusive fee of one guinea, apart from postage. The idea on which this system is based is to arrange for each student his course of study, and to provide him generally with the necessary knowledge."

For Prospectus Write or Phone THE PRINCIPALS Westminster College, 190 Clapham Road, S.W. 9. Phone, Brixton 1728.

LONDON COLLEGE OF PHARMACY

Principal - HENRY WOOTTON, B.Sc. (Lond.)

COURSES of Instruction provided for students preparing for examinations in Pharmacy, Chemistry, &c.:

MINOR—Next Term begins on April 9.

Apothecaries' Hall—Next Term begins on April 30.

Students of Pharmacy may obtain Demobilisation Forms by applying to the Principal of the London College.

For Prospectus, &c. apply to the Principal:
LONDON COLLEGE OF CHEMISTRY & PHARMACY
361 Clapham Road, London, S.W. 9

THE CHESTER & N. WALES COLLEGE OF PHARMACY, Hoole, CHESTER.

PRINCIPALS:

K. S. DICKINSON, Ph.C., F.C.S.

HARRY BERRY, Ph.C., F.C.S.

FULL-TIME CLASSES
for Major and Minor commence APRIL 7.
PART-TIME CLASSES
every Tuesday and Wednesday.

Write for Prospectus and full particulars.

Liverpool School of Pharmacy

Principal: H. HUMPHREYS
JONES, Ph.C., F.C.S.

Recommended by the
Liverpool Chemists' Association.

FULL-TIME COURSE Jan. 6
for April and July Exams.

PART-TIME CLASSES, Jan. 6 & 7

OCTOBER PASS LIST ... 100 %

Full particulars from the Principal, 18 Colquitt St., Liverpool.

PAPER

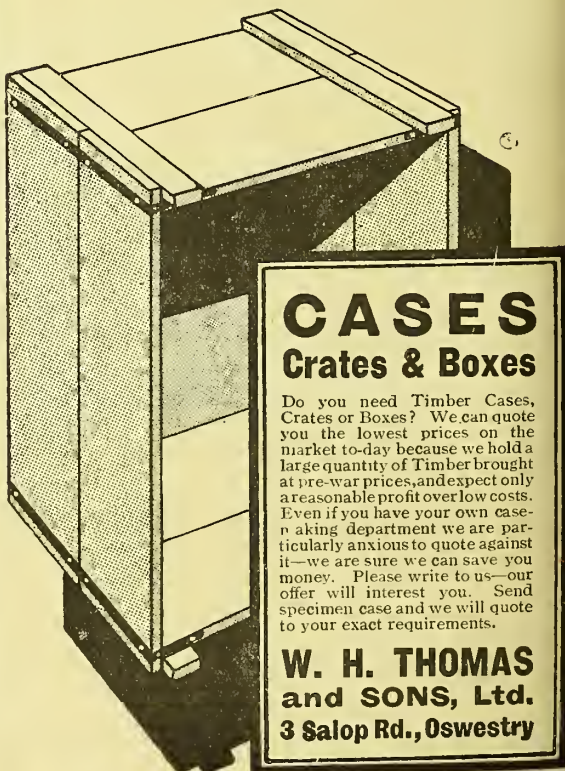
A few reams Strong Brown Tissue,
18×23 @ 16/6. 5 reams carr paid,
Brown from 70/- per ream. Pure
Kraft from 35/- Pure Greaseproof,
20×30, 24 lbs. @ 50/- per ream.
Cash with order.

D. W. BULL, 4 CHURCHILL ROAD, HOMERTON, E. 9

**We Develop Films and post back Next Day
,, & Print ,, ,, in Two Days**

Plates, Flat or Roll Films, developed printed, enlarged,
retouched, etc. We lay out works out to supply Phar-
macists with good work at reasonable prices, with quick
dispatch. Price List on application. Monthly accounts
without fuss.

**ARTHUR J. C. LEWIS, The Chemists' Photographic Printers,
NEW BARNET**



CASES Crates & Boxes

Do you need Timber Cases, Crates or Boxes? We can quote you the lowest prices on the market to-day because we hold a large quantity of Timber brought at pre-war prices, and expect only a reasonable profit over low costs. Even if you have your own case-making department we are particularly anxious to quote against it—we are sure we can save you money. Please write to us—our offer will interest you. Send specimen case and we will quote to your exact requirements.

**W. H. THOMAS
and SONS, Ltd.**
3 Salop Rd., Oswestry

We are Buyers

OF FINE AND HEAVY CHEMICALS
FOR THE CONTINENTAL MARKET

Are also willing to represent First-class
British Firms. Offers and inquiries solicited

NATAN & CO. (*Italian Firm*),
(BRUSSELS, OSTEND)

2a & 13 RANGOON STREET, LONDON, E.C. 3

CHEMISTS, BE PATRIOTIC!!

SEND YOUR DEVELOPING & PRINT-
ING TO THE SILVER BADGE FIRM.

Principals & Employees are Ex-Service Men.

THE "VICTORY" DEVELOPING CO.,
DURRINGTON, WILTS.

WE GUARANTEE QUICK SERVICE
AEROPLANE QUALITY AT SUBMARINE PRICES
GIVE US A TRIAL

Phone: IY5 BULFORD.

ZEAL'S REGISTERED

Clinical Thermometer

The "REPELLO"

Requires no shaking down.

Guaranteed Accurate.

A 30-Second Pushed back
in an instant.

Good
Selling
Lines for
Chemists



Showing flattened
bulb at end.

NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying
Clinical Thermometer on the Market.

IN FOCUS.



OUT OF FOCUS.

The square mark engraved on lens front
locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

G. H. ZEAL, 82 Turnmill St., LONDON, E.C.

Wholesale Manufacturer of

CLINICAL THERMOMETERS.

CONTRACTOR TO H.M. GOVERNMENT.

Established 1888.

Telephone No.: 12438 Central.

BOOKS for PHARMACISTS



THE PRESCRIPTION.—By Dr. O. A. Wall. One of the best books on the subject ever written. The subject is therapeutically, pharmaceutically, grammatically and historically considered. Fourth edition, enlarged and rewritten. 275 pages, 6x9, illustrated. Cloth, 10s. 6d.; with THE SPATULA 1 year, 14s.

COMMERCIAL PHARMACY.—By D. Chas. O'Connor. A complete treatise on the business side of pharmacy, founded on over twenty-one years' experience. Every detail entering into the successful running of a drug-store is thoroughly covered. Cloth, 408 pp., 42 illustrations. Price 13s.; with THE SPATULA 1 year, 17s.

LESSONS IN LATIN.—By Dr. O. A. Wall. A valuable book for any one who wishes to acquire a knowledge of medical and pharmaceutical Latin, especially adapted for self study. Second edition revised. 148 pp., 6x9, cloth, 6s.; with THE SPATULA 1 year, 10s.

PRACTICAL PHARMACY.—By Birdsey L. Maltbie. Second edition revised to conform to the U. S. P. Ninth revision. Explains in plain language the most essential facts in pharmacy, omitting what is unimportant. Especially adapted to the needs of the self-taught and those who wish to review their early training. 434 pages, illustrated. Cloth, 12s.; with THE SPATULA 1 year, 16s.

INCOMPATIBILITIES IN PRESCRIPTIONS.—The object of the first part of this book is to present to the student in a convenient and condensed form the more common incompatibilities. The second object of the writer is to furnish the student of pharmacy with a list of incompatible prescriptions in such form that he may find out for himself what the trouble is, and the best means of avoiding or overcoming it. 320 pp., 6x9. Cloth, 9s.; with THE SPATULA 1 year, 13s.

POCKET MEDICAL FORMULARY.—Including over 2,000 formulae or prescriptions and a number of unique and specially valuable features. By William Edward Fitch, M.D. Second edition. Printed on special made, very thin opaque paper, 500 pages. One quarter inch in thickness. Small 12mo. Bound in flexible leather and of convenient size for the pocket, 8s.; with THE SPATULA 1 year, 11s.

GOULD'S POCKET MEDICAL DICTIONARY—35,000 medical words. Seventh edition. The system of pronunciation used in this book is very simple and the definitions are arranged in a form most convenient for reference and memorising. Thin 6mo. 6 x 6 1/2 inches, 1,000 pages. Full limp leather gilt edges, rounded corners, 7s.; with THE SPATULA 1 year, 10s.

THE NEW STANDARD FORMULARY.—By Hiss and Ebert. Nearly three times the size of the earlier edition. Its wealth of information is up to date and precisely adapted to the needs of dispensers of to-day. In its six sumptuous departments will be found the formulas of the world—thousands of originals and all of value from American, English, German, French and Scandinavian pharmacopoeias, dispensatories, manuals and other works. 1,300 pages, 6x9, strongly bound in buckram, 23s.; with THE SPATULA 1 year, 26s.

MANUAL FOR THE ESSENCE INDUSTRY.—By Erich Walter, specialist in the Beverage Industry. Contents—Flavouring and its Transfer to Foods and Beverages. The raw-material sources of the flavours. Laboratory Practice. Non-alcoholic beverages (mineral waters, fruit juices and essences for Effervescent Lemonades: with a supplement on Jams and Fruit wines). The Alcoholic industry (brandy, liqueurs, spirits and all Alcoholic drinks). Essences for Confectionery, Baking and the Kitchen. Colouring matters for foods and Drinks. Cosmetic Essences (Perfumery, Cosmetics and Soap Perfumes). 427 pages, 6 x 9. Cloth, 18s.; with THE SPATULA 1 year, 22s.

WATCH FOR ANOTHER LIST OF BOOKS THE WEEK AFTER NEXT.

FREE.—To any Chemist and Druggist in any part of the world, a sample copy of THE SPATULA, one of the handsomest and most practical drug journals published, full of American vim and push, and a 32-page illustrated catalogue of pharmaceutical books.

(Cheques on local banks in Great Britain accepted. Make Money Orders payable to IRVING P. FOX, Treasurer.)

THE SPATULA, 14 Sudbury, Boston, Mass.

(2)

GLYCERINE and ROSE WATER SOAP

MESSRS. D. & W. GIBBS, Ltd., are pleased to inform their many customers that they are now able to procure the ingredients for supplying this Soap, and have a stock on hand in the three original colours, ready for immediate dispatch.

D. & W. Gibbs, Limited
City Soap Works WAPPING, E.1.

7d. EVERY TIME

After you've made up a 1/- Mixture, with half-a-dozen impatient customers "kicking their heels," and others, seeing Pharmacy full, pass on to your neighbours'.

Just think—

how much better it would be to have reliable remedies ready at hand for general complaints, such as Influenza, Neuralgia, Coughs, Fever, etc.

OWN NAME REMEDIES TO RETAIL, 1/3;
8/- per doz.; 95/- per gross ASSORTED CARRIAGE PAID

OR PACKED TO YOUR OWN FORMULÆ WITH
OWN LABELS : : : : : :

SHALL WE PACK YOURS?

QUICK SERVICE PAYS

CARMOL Ltd.
Manufacturing Chemists

Washington Street
BIRMINGHAM



THE ANZORA PAIR

THAT IT PAYS TO PUSH.

The sales of ANZORA have increased at a tremendous rate recently, which shows that the public knows what it has an article that pleases.

By pushing the sales you are satisfying your customer and making good profit for yourself.

We regret that during the War many of our friends have had to wait for supplies owing to numerous unforeseen difficulties, but we are now overcoming these matters.

TRADE { 11/6 per dozen. Retailed at 18/-
TERMS { 19/6 " " " " 30/-

REMEMBER, ANZORA CREAM (for those with slightly Greasy Scalps)
MASTER THE HAIR. ANZORA VIOLA (for those with Dry Scalps)

Obtainable from all Wholesalers.

ANZORA PERFUMERY CO., 28, 32, 34 Willesden Lane, N.W. 6

*"Less than a drop
is sufficient"*

Zenobia Condensed Perfumes are so highly concentrated that less than a drop is sufficient to give a lasting yet delicate fragrance.

But how can one apply "less than a drop?" By momentarily inverting the bottle and then lightly touching the article to be perfumed with the moistened stopper. The ordinary stopper found with Zenobia Condensed Perfumes is much more economical than the rod stopper, which applies more perfume than necessary.

ZENOBBIA

CONDENSED PERFUMES

This explanation, given at the time of sale, will assist in establishing Zenobia Condensed Perfumes as favourites with the public. Besides being so economical, they have the true flower fragrance always associated with the name of Zenobia—a fragrance that is unequalled for purity and charm.

ZENOBBIA, Ltd. Wholesale, Manufacturing and Export Perfumers,
Loughborough, England.



The Retail Prices are 3/-, 6- and 12/6 per bottle.

Trade Prices are 27/-, 54/- and 108/- per dozen, less usual discount

FACE CREAM. TOOTH POWDER. NAIL POLISH
" POWDER. " PASTE. HAIR CREAM
BRILLIANTINE, Solid and Liquid. PERFUMES
VIOLET POWDER. TALCUM. TOILET OATMEAL
SHAMPOO POWDER & LIQUID. MASSAGE CREAM

*Your own formula prepared, or we can supply ingredients if desired.
Send for samples and quotations.*

A. CONNELL & CO., 3 Jewry Street, LONDON, E.C. 3

PHONE—AVENUE 1945.

F. M. RUDD,

Bronson,

MICHIGAN,

U.S.A.

**GENUINE AMERICAN
PEPPERMINT OIL**

*"Columbia" Natural
"Diamond White"
Re-distilled.*

Finest qualities for Druggists,
Distillers and Confectioners.

Sole Consignees in United Kingdom—

R. W. GREEFF & CO.

Thames House,

Queen St. Place, LONDON, E.C.

"Strodonia"

VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

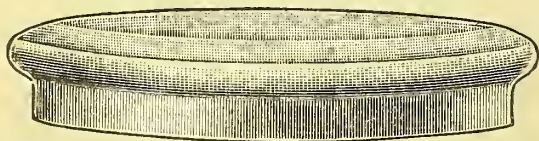
1 dozen 7d. selling for 11 3
1/2 " 1/- " " 9 0

For 10/- cash with order, carriage paid. **20 3**
7 1/2d. and 1/- " " 5/6 and 9/- per dozen.

From London Wholesalers.

Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists, LOWER UNION ST., BRISTOL.

**CELLULOID CAPS**

for Pots and Bottles.

F. W. DUROSE,

45 Queen Street, SMETHWICK, BIRMINGHAM.

Telegrams: "Durose Smethwick."

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—**PRESTON'S LIVERPOOL DISTILLERY CO. LD.**

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.**ADEPS LANÆ, P.B.**

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

FOR LARGE BUYERS.

Shaving SticksAlso Brilliantines, Dry Shampoo (Liquid),
Bay Rhums, Toilet Paraffins, Lime
Creams, Pomade Hongroise, Tooth
Powders, Dental Creams, Vanishing
Creams, Shampoo Powders, and all
Toilet Goods.**LOW PRICES for
HIGH QUALITY.****STOKES & CO., Ltd.**

Manufacturing Chemists and Perfumers

Desk 11, 31-35 Lower Castle St., BRISTOL.

(10)

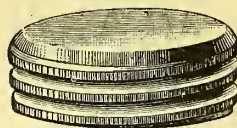
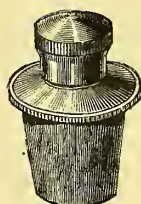
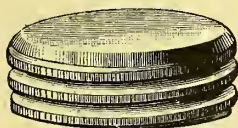
LOFTHOUSE & SALTMER, Ltd.Wholesale and Export Drug Merchants,
Manufacturing Chemists**HULL.****I** NVITE the Trade to take up the following valuable
P.A.T.A. Protected Lines, bearing a very large
Protected Retail Profit, which sell freely and are
well known and valued by the Public in many parts
of the country.

	P.A.T.A. Protected Retail Price.	Dozen Net
* LOSALL'S SALT (well advertised), tins	9d.	6/6
* " " " " bottles in cartons	2/-	16/-

**Losall's Salt sells so well, surely it
must pay Pharmacists to stock such
a big profit-bearing protected line.**

LOSALL'S COMPOUND SULPHUR SOAP.

	Box;	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box for 8d.	2/-	18/-



Collapsible Tubes Sprinkler Stoppers

PLAIN AND PRINTED.

FILLING & CLOSING MACHINES

METAL CLIPS for ends of Tubes and MACHINES for fixing same.
SCREW CAPS, METAL TOP CORKS, etc., etc.

Inquiries invited.



24 CITY ROAD
Finsbury Square
LONDON, E.C. 1

(3)



NO PASTE,
NO ADHESIVE,
NO STRING,
NO ELASTIC,
NO SCISSORS
are required for

SEMREH

BOTTLE CAPS

They are

SELF-FIXING.

Details from

THE VISCOSE
Development Co., Ltd.
BROMLEY, KENT

CELLULOID MOULDED GOODS

MANUFACTURED TO ORDER.

Quotations and time for delivery on receipt of sample.

A. W. J. SHELDRAKE,
497 Grove Green Rd., Leytonstone, London, E.11

IMMEDIATE DELIVERY

GATES' BOTTLE CAPPING SKINS



**SNOW-WHITE OPAQUE
ROLLED SKINS.**

SOMETHING QUITE NEW. These Skins are damp and **READY FOR USE.** The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. **ABSOLUTELY AS OPAQUE** as Split skins and equal in appearance.

"Mine beat all others."

Sole Pioneer and Only
English Manufacturer :

LESLIE GATES
HAILSHAM, SUSSEX.

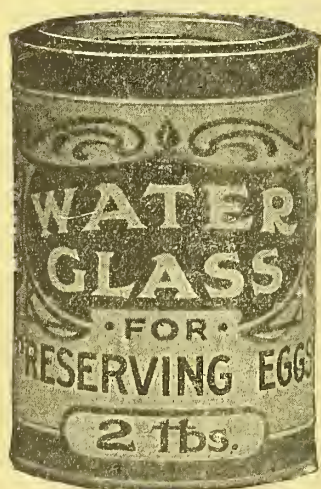
Another New Speciality.—Try my
TRANSPARENT SHEEP BAUDRUCHE
CAPPING SKINS.



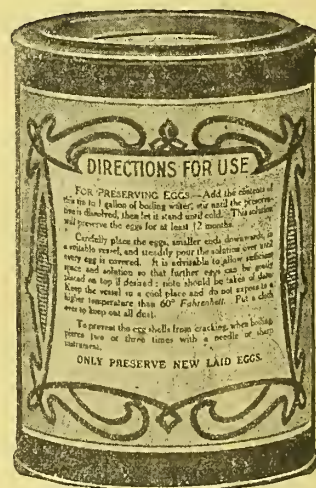
ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

MAY, ROBERTS' Water Glass



Free Cases.
Free Carriage.
5% Discount.



May, Roberts' Water Glass for **Egg Preserving** is guaranteed to be of the finest quality and of full strength (140 o/w).

Packed in strong Government Standard Composite Drums, open on tops and bottoms.

1-lb. size - 5/6 per dozen.

Packed in free cases of 5 dozen each.

Smaller quantities than 5 doz., 6/- per doz.

2½-lb. size - 10/- per dozen.

Packed in free cases of 2½ dozen each.

Smaller quantities than 2½ doz., 10/6 per doz.

5% DISCOUNT.

*Two cases of either size or one of each sent
CARRIAGE PAID.*

MAY, ROBERTS & CO., Ltd.

7/13 CLERKENWELL RD., E.C. 1, and 16 WESTMORELAND ST., DUBLIN.

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

BAKER STREET STATION (15 minutes from).—Good Business; Retail and Dispensing; net profit £600; well-fitted shop, nicely fitted and fully stocked; valuation terms to be considered or lump sum offer.

LONDON, S.E.—Good middle-class Business; Retail and Dispensing, no panel work; business established upwards of 40 years, present hands 35; returns well over £2,000; net profit £500 and £600; corner shop; comfortable residence; own property; price £1,300.

LONDON, W.—Good-class Business, Dispensing and Retail, in centre of excellent residential locality; returns about gross profit 50 per cent.; well-appointed shop; large residence on lease; to effect a speedy transfer no reasonable offer will be refused.

LONDON.—Old-established good-class Retail and Dispensing; returns upwards of £2,000; scope for development; well-fitted shop and comfortable residence; no near opposition; price arranged equitably.

LONDON, S.E.—Cash, Retail, and Dispensing Business; shed many years; returns about £1,150 at fair prices; there an appointment attached; rent £46, held on lease; stock values at £550; price £675.

LONDON, N.W. (Residential Suburb).—Well-established business held by vendor upwards of 25 years; returns, present rate, 50 per week at fair prices; well-appointed shop, fitted in; there is a comfortable residence; held on lease; no near opposition; price £850.

LONDON, W.—General Retail, with some Dispensing and some Photographic; no N.H.I.; returns show a steady increase, last year's turnover being between £1,350 and £1,400; gross profit 25 per cent.; lock-up shop; no immediate opposition; good for increase; also Dentistry or Optics; terms £100 and on of stock and fixtures.

8.—WESTERN COUNTY (Health Resort).—Good-class Business for disposal through death; returns between £1,200 and £1,300, with scope for extension; well-fitted shop and large residence; rent £55; for an immediate sale less than the value of stock and fixtures will be accepted.

9.—MIDLANDS.—Ready-money Business; established many years; returns show a steady increase, last year's turnover being £2,484; gross profit £827, net £649; corner shop, fairly well fitted and fully stocked; small residence; rent £40; no opposition; price £750, or valuation of stock and fixtures and £30 for goodwill.

10.—WESTERN COUNTY.—For immediate disposal, good-class Family Retail and Dispensing Business with Photographic Branch; the concern has been established upwards of 60 years, and held by vendor 43, now retiring; returns last year £1,764; gross profit £541; roomy house; price about £1,000, or valuation terms would be considered.

11.—SHAFFS.—Ready-money Retail with N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

12.—HANTS.—Cash Retail Business, capable of extension; returns, present rate, £600; the shop offers a good nucleus; small residence; rent moderate; price £300.

13.—HOME COUNTY.—Modern Pharmacy, situate in principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

14.—MIDLANDS (Large Manufacturing Town).—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

1. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

INGHAM.—Cash Business for disposal, established 50 years, in thickly populated district; main road; shopping cash register gave 1918 takings £1,934, and over 4,400; Optical, Insurance, Ucal; Council agency brings in rent £40; living house; net profit £500; bargain, £750, if worth attention; buying larger business. Apply 13/32, this Paper.

TER (Genuine Offer).—Old-established (in family 27 years) Right Retail and Dispensing; little N.H.I.; fully stocked; shop, with convenient house attached, or lock-up if desired; over £1,000 (increasing); scope for Photographics; price owner leaving district. Apply Bishop, Chemist, Watergate Chester.

COUNTIES.—An old-established Mixed-country Business returning over £2,000; owner retiring; strictest investigation full particulars on application. Apply "Q" (14/18), this Paper.

ON (outer suburb), very old-established unopposed General, Retail, and Prescribing Business, returning nearly £1,500 at full prices; only changed hands once; long lease; shop well fitted mahogany; price £475; photography could be added; death in family cause of sale. Apply (15/3), Office of this Paper.

N, S.W.—Good-class Retail and Dispensing Business for sale, with growing Optical connection in residential neighbourhood; returns over £1,000, always increasing; shop splendidly fitted £55; price £500 cash; good private house, separate electric light, bath; banker's reference before further offers are given. Apply 12/22, Office of this Paper.

LONDON, S.W.—Established 1870; Prescribing, Dispensing, and own preparations; very little patents; double-fronted shop next Tube Station on busy corner; average returns £580; 10 years under deceased proprietor; room for expansion; seven-roomed house; 7 or 14 years' lease; rent £65; good stock on hand; price £300, stock included. Apply 16/14, Office of this Paper.

LONDON, S.W.—A good ready-money Business in medium-class district, showing a net profit of over £550 a year, and increasing; a legitimate Drug Business held many years; satisfactory reasons for disposal; price £600; any gentleman with this capital would find it worth attention. Apply 16/18, Office of this Paper.

MIDLANDS.—Through ill-health, a nice, well-fitted, village Pharmacy for disposal at valuation of stock and fixtures; about £200; profits almost half; no opposition for 10 miles radius; good house; rent £22; full prices; no cutting; a really good opportunity for young man with energy; returns £15 week. Apply 11/38, Office of this Paper.

SOUTH YORKS.—For immediate disposal at valuation, very profitable Retail Business on main road of large city; present returns £1,700; good fittings; lock-up shop; double-fronted corner position; many years in present hands; easily and cheaply worked. Apply 15/24, Office of this Paper.

YORKSHIRE CITY.—Excellent situated suburban Business; easily worked, good class; plenty of room for development; immediate possession; good house and garden; an ideal place for one who does not want too strenuous a business; terms, valuation; part payment if required; inquiries invited. Reply 10/38, Office of this Paper.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

- 1.-ESSEX COAST.—Select Retail Dispensing and Photographic Business in best position; returns last year £1,370; *net profit* £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.
- 2.-HOME COUNTY.—Good-class Retail and Dispensing Business; ill-health sole cause of sale; returns £1,060; *net profit* £428; good house and garden; modern well-stocked Pharmacy; price £750.
- 3.-WEST OF ENGLAND.—Good-class Retail and Dispensing; returns £2,000; practically all cash trade; good profits; large handsome Pharmacy, well stocked; good house, low rent; price £1,200, or small goodwill and valuation.
- 4.-SURREY (Suburb).—Good-class Retail and Dispensing Business in good position; returns £1,800; *net profit* nearly £450; books well kept; very convenient house; price about £900.
- 5.-MIDLANDS.—Well-established Wholesale and Retail Business for sale through ill-health; returns average £6,500; plenty of scope; low rent; on lease; books audited, and every investigation courted; price £3,500 or near offer.
- 6.-KENSINGTON (Death Vacancy).—Good-class Dispensing and Light Retail; under management; returns about £700; was doing £1,250, and can again; well-fitted Pharmacy and good stock; price for quick sale £450, or near cash offer; worth attention.
- 7.-LONDON (Western Suburb).—Light Retail Dispensing and Photographic Business; returns over £1,350; *net profit*, about £500; large handsomely fitted shop, fully stocked; price £800, or £100 and valuation; trial can be had.
- 8.-LONDON (Essex Suburb).—Profitable light middle-class Cash Retail; practically unopposed; returns over £1,000; *net profit* £436; books properly kept; well fitted and fully stocked; price £650.
- 9.-LONDON, S.E.—Light Cash Retail, under Manager; returns £520; profits high; plenty of scope; lock-up shop; low rent; price £175.

BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £3,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

BUSINESSES FOR DISPOSAL (continued).

A SPLENDID Prescribing business for sale in a busy Manufacturing North-West Lancashire town; rent low; easily worked; well fitted and stocked; young couple could live on premises; used now as a lock-up shop; opening for Optics or Dentistry; takings over £1,000 annually; price £550 cash; no agents; principals only; all books open to investigation; good reason for disposal. Apply "Successful" (278/8), Office of this Paper.

B ARGAIN.—Chemist's Business and Freehold Premises in thriving town 24 miles West of London; splendid position; three minutes main line station; neglected during war, proprietor now going abroad; must sell at once; rock-bottom price for business, stock, fixtures, and freehold premises comprising shop and living rooms, £775 all at. Apply "Freehold" (8/10), Office of this Paper.

B USINESS for disposal; established 25 years; returns over £1,000; owner giving up owing to ill-health; double-fronted shop in excellent main road position; thoroughly genuine concern; open to every investigation; could be considerably increased by energetic man. Stow-Morris, Chemist, 16, Rusty Green, Catford, S.E. Write private address, "Killarney," 57 Bromley Road, Catford, S.E.

C HEMIST'S Business for sale in Dundee; busy thoroughfare; large and lucrative trade done; satisfactory reason for disposal. For particulars apply 59/42, Office of this Paper.

F OR disposal, old-established country Business, with Wine and Spirits; agricultural district near sea, North Lincs (good house attached); on lease; rent £37; short hours; returns last year £2,500, an increase over previous year of £300; N.H.I. for year £25; will bear strict investigation; disposal owing to ill-health. Apply "Lancs." (13/14), Office of this Paper.

G ENUINE Drug Stores in good London locality; returning over £1,000 per annum, at fair prices; splendid opportunity for qualified or unqualified; £100, with stock at value. For particulars apply 16/40, Office of this Paper.

O LD-ESTABLISHED Retail, Prescribing, and Dispensing; also Sight-testing Optician's business in North of England. Apply 280/36, Office of this Paper.

S MALL Tablet-making Business for sale, including three Power Machines, as a going concern; central Manchester only £150. Apply 12/33, Office of this Paper.

W ELL-KNOWN sound Business in progressive industrial land town; established 86 years; 300,000 original subscriptions; turnover £10,000 at good profits; one of the smallest (double-fronted) shops in the country; recently refitted all three commanding position; heavy modern stock; sound investment; opportunity seldom offered; only genuine cash buyers entertain price £5,000, or valuation and reasonable goodwill. Apply 12 Office of this Paper.

BUSINESSES WANTED.

L ONDON.—Cash Drug Store, with *net profit* about £600 more, on modern trading terms; scope for expansion; cash will be paid. Full particulars to "Senega" (13/13), Office of this Paper.

S OUTH-EASTERN COUNTIES OR COAST.—Thoroughly good and increasing Business wanted; turnover not less £2,000, with good profits; convenient living accommodation; ideal; purchaser would like to act for short time as Manager Assistant; qualified; excellent references; cash waiting. Reply in strict confidence, and with full particulars, to 15/5, Office of this Paper.

A SOUND Chemist's Business in good country town, South Thames; Sussex, Surrey, Dorset, Kent, Hampshire preferred; or South Coast town; bracing air; pre-war profit at least after paying Assistant; no immediate hurry; banker's ref. cash. Address "Pharmacist," Osborne House, Heath Street, 8 bridge, Worcestershire.

E XPERIENCED man and a worker, with about £3,000 invest, wants Partnership, or would purchase small Wholesale Manufacturing. Apply 16/20, Office of this Paper.

G OOD-CLASS Cash Retail, £3,000-£5,000 turnover; suitable partnership; one where owner wishes to retire and give good introduction preferred; £1,500 cash ready; north town preferred, but good country business not objected to; for Optics and Photographic trade. Apply 267/11, Office of this Paper.

P HARMACIST requires a Business; London suburb or vicinal town; returns £800 to £1,200. "Wilson" (16), Office of this Paper.

S MALL or neglected Business in or near shopping centre; outer London suburb, or town within 40 miles of London; one capable of extension in energetic hands; prompt cash; neighbourhoods will not be considered. Apply 13/34, Office of this Paper.

PREMISES WANTED.

£5 OFFERED for information, if acted upon, for opening Drug Store in nice part of large town; Notts or Birmingham preferred, or will purchase a sound business; must have house accommodation. Apply 14/14, Office of this Paper.

FOR SALE.

F OR Sale, a Mixer, by "Werner & Pfleiderer"; double belt friction pulley drive; size inside mixer, 3 ft. x 2 ft. 9 in. 2 ft. 9 in. deep; splendid condition; also friction hoist. 39/41, Office of this Paper.

F OR sale, Copper Still; brand new; tinned inside; comes with condenser; automatic feed; wrought-iron furnace; powerful gas burner; capacity 25 gallons; cost £63. Whatcough, Kolynos, Incorporated, 43-44 Shoe Lane, London, E.C. 4.

F OR sale, 3 lb. Unney's finest American Oil of Pepper 25s. 6d. per lb. Apply "S. S.," 98 Greyhound Street, Streatham Common, S.W.

F OR Sale, about 9 cwt. hard white Block Stearine; 124° price 110s. per cwt., or nearest offer. Apply 14/23, Office of this Paper.

M IXER of drum pattern; would mix about 300 lb. of flour, the like at once for hand; could easily be converted to power; would also do for mixing plastic material; perfect also a 13-foot length of rubber wire-lined Suction Pipe; used once. Apply 39/410, Office of this Paper.

O LIVE Oil, orcam quality, 1/2 per cent. acidity, 2 gall. 30s. gall.; Honey, Calif. (white colour), 4 60-lb. tins, 60s. 6d.; Pot. Brom., 6s. 6d. lb.; Sod. Brom., 5s. 6d. lb., 7 lb. Walters, 52 West Street, Oldham.

7 WINCHESTERS Inf. Senegale. Conc., i. to vii., at 4s. 6d. one W. of 5 lb., carriage paid, for 23s. 3d.; cash order. John Noble, Pharmacist, 17 Owens Row, London, E.C.

AGENCIES.**AGENCY—HOLLAND.**

Vell-introduced Agent, with thirty years' experience, elicits representations for Holland in Colonial produce, Chemicals and Drugs. First-class references.

Letters to be addressed to No. 583, Advert. Office, Ned. Kiosken-Maatschappij, Wijnhaven, 85 Rotterdam.

AUSTRALIA.—Qualified Pharmacist, young, energetic, with Wholesale and Retail experience, desires free-lance Agencies good-class Manufacturers dealing with Wholesalers only; any pharmaceutical, Toilet, Druggists' Sundries, or allied lines taken advertiser at present in this country, on leave from A.I.F., open to personal interviews. Address 7/27, Office of this Paper.

AUSTRALIAN AGENCY.—Advertiser, having large connection and experience throughout Australia, and resident agent for important English Company, would be glad, before returning, to obtain proposals for an additional Agency, preferably a Proprietary line; exceptional knowledge of advertising and follow-up; stock held in all capitals. Reply to 60/40, Office of this Paper.

BELGIAN Chemist of Antwerp desires sole Agency in Belgium for well-known English or American Patent Medicines, with retail; cash; references from two London firms. Address 275/30, Office of this Paper.

CHINA EAST.—Travelling Representative, with extensive connection and experience in China, Malay States, and Far East, prepared to represent manufacturing firms, Drug, Perfume, Chemical, and allied trades, desiring to extend their business in Far East. Reply "China" (13/31), Office of this Paper.

HOLLAND.—Advertiser, who has had over 15 years' experience in Wholesale Pharmacy, and has a sound connection among Wholesalers and exporters of Drugs, Chemicals, and allied products, is open to take up a few Agencies for well-known British firms; highest trade and financial references. Address 1/48, Office of this Paper.

HOLLAND AND COLONIES.—Dutch firm, established over 70 years, with a wide and valuable connection in Holland, the Colonies, is open to take up Agencies for the sale of Surgical Instruments and Appliances, Druggists' Sundries, and Surgical goods; highest references. Address 11/8, Office of this Paper.

HOLLAND. work thoroughly three times yearly, by Agent carrying well-advertised Proprietary lines, desires another Agency good speciality; personal connection, Wholesale and Retail Agents. Reply "Sales" (10/35), Office of this Paper.

ITALY.—Manufacturer of Cream of Tartar and exporter thereof, and of Citric and Tartaric Acid to all countries, large order of Chemicals, well introduced in the whole of Italy, and take up the matter of some good sole Agencies for Italy; references and securities. Apply 57/40, Office of this Paper.

ITALY.—Having special facilities for development, we are open to undertake Agencies for English Manufacturers of Chemicals, Drugs, Photographs, and Druggists' Sundries. Write to Medico, 95 Toledo Naples, Italy.

PORTUGAL.—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug products, desiring to represent first-class houses manufacturing Ink Powders, Chemical Colours, and Chemical Products generally, for all countries; successful results guaranteed; good references. Address 15, Office of this Paper.

QUEENSLAND, AUSTRALIA.—Representative British firm Perfumers, calling upon Chemists, Druggists, open accept additional lines Toilet Sundries; highest credentials. Write "W. C." (17/36), Office of this Paper.

FIRM of Manufacturing Chemists offers excellent selling packed line to traveller who has good connection in the country; liberal commission. Please write 15/39, Office of this Paper.

G. JACK & CO., an established firm, are open to represent Manufacturers of Proprietary and Pharmaceutical preparations in India, Burma, and Ceylon; references, the National of India, Ltd., Bombay; head office, Victoria Building, Fort, Bombay.

REIGN and Colonial Agent wanted for high-class Perfumery and Toilet specialities. Apply 16/35, Office of this Paper.

NAVY CHEMICALS, DRUGS, ETC.—Danish firm want connection with exports; commission basis or own account. Offers 1/41 Sylvester Nvid, Copenhagen K.

REPRESENTATIVE, 34 (ex-Service), calling on Chemists, seeks salaried appointment or commission agency; Northern Counties covered; ten years with last firm (Drugs); irreproachable record and references. G. W. Crowther, 3 Ashburton Road, Wallasey, Cheshire.

THE ANGLO-FRENCH DRUG CO., LTD., desire to inform the trade that they have opened a Branch in Paris with large stock rooms. They are therefore now in the position to offer their unique experience in introducing British goods and Specialities into France, and would be pleased to receive proposals as to sole Agencies. The Company would also act as buyers in France for British and Colonial firms on a small commission basis. Proposals, etc., which will be treated confidentially, to be sent to the Head Office, Gamage Buildings, Holborn, London, E.C. 1.

APPRENTICESHIPS.

APPRENTICE; youth, aged 16 years, tall, and good appearance; passed College Preceptors. Apply, full particulars, to "Veritas" (11/7), Office of this Paper.

PARTNERSHIPS.

PARTNER wanted (a lady essential) to open a Chemist's Shop in large Midland village; very good opening; Counter work and management; no bookkeeping; must be fully qualified Dispensing Chemist with experience; capital not essential; board and lodging free by arrangement. Apply 12/21, Office of this Paper. Will advertiser please send his name and address to this office.

ROOMS WANTED.

DENTAL SURGERY.—Wanted to rent, Rooms suitable Dental Surgery, or purchase of a practice entertained; one neglected owing to war might suit; London or provinces; South Coast town preferred. Particulars as to rent or purchase price, which must be reasonable, 12/27, Office of this Paper.

TO LET.

SHOP with basement; unique for Chemist; best position in Nelson (50,000 population), Lancashire, opposite tram terminus; trams radiate from this point through population of 250,000. Apply Watson, Landless & Pearce, 2-4 Nicholas Street, Burnley.

SITUATIONS OPEN.**RETAIL.**

ANCOATS HOSPITAL, Manchester, require a Dispenser with the Minor qualification; Institutional experience preferred; lady or gentleman; salary £175 per annum. Apply to the Secretary, giving age, experience, qualifications, etc.

ASHBOURNE, DERBYSHIRE.—Unqualified Assistant for brisk country Retail in pleasant neighbourhood; no Sunday or night duty; another lady Assistant kept; one desiring a permanency preferred. Please give usual particulars, state salary required (outdoors), and name references first letter, Plant, M.P.S., Chemist.

BECKENHAM.—Unqualified Assistant for Dispensing and Counter; must be quick Dispenser and good Salesman. Mr. F. Pain, 70 Beckenham Road, Beckenham.

BECKENHAM, KENT.—Junior Assistant wanted. Apply, giving full particulars of salary required, references, etc., to Mr. Wallace, M.P.S., 9 High Street, Beckenham, Kent.

BERKHAMSTED.—Wanted, competent Assistant (lady or gentleman) for good-class country Retail; easy hours; comfortable berth to trustworthy and reliable Assistant. Reply, stating age, references, and salary expected, to Gibbs, Chemist, Berkhamsted.

BIRMINGHAM DISTRICT.—Unqualified Assistant wanted; 20 to 25; thoroughly reliable; permanency. Apply 257/29, Office of this Paper.

BOURNEMOUTH.—Two Junior Assistants wanted for Light Retail; outdoors; hours 9 to 7; time for study can be arranged; Pharmacy classes in the town. Apply, with full particulars of experience, salary required, etc., to J. K. Matterson, The Arcade, Bournemouth.

BRADFORD (NEAR).—Elderly qualified Assistant; easy hours; duties light; permanency. "L. M." (12/13), Office of this Paper.

BRISTOL.—Wanted, a capable, unqualified Assistant under 35; must be tactful Salesman, good Dispenser, quick, and have highest references. Please state age, height, salary required, and full particulars of experience to Hawker, 129 Gloucester Road, Bristol.

BUXTON.—Unqualified Assistant (lady or gentleman) wanted for good-class business; outdoors; short hours. Please state age, previous experience, and salary required to W. T. Young, Pharmacist, Spring Gardens, Buxton, Derbys.

CROYDON.—Smart unqualified Assistant wanted; Counter and Dispensing. State salary required, etc., W. E. Matthews, Ltd., 40 George Street.

HEREFORD COUNTY AND CITY ASYLUM.—Wanted, a lady Dispenser to Dispense Medicines and assist in Medico-clerical work. Applications, giving full particulars of qualifications, past and present employment, with recent references, and stating salary required, to be addressed to the Medical Superintendent, County and City Asylum, Burghill, near Hereford.

ILFORD.—Wanted, a qualified Assistant and a Junior Assistant in a good-class business near London. Apply, with usual particulars as to salary required, etc., Newton Wright, Ilford.

IPSWICH.—Required, Assistant (lady or gentleman), with knowledge of Dispensing; easy hours; outdoors. Apply, with usual particulars, to W. H. Stones, Chemist, 21 Tacket Street, Ipswich.

LEEDS.—Qualified Manager required for a business situated in residential artisan district; Leeds man preferred; liberal interest in the profits of the business offered. "Leeds" (12/131), Office of this Paper.

LONDON.—Lady, Minor, required (end of March) for Retail and Dispensing; state salary required. Apply 14/39, Office of this Paper.

LONDON, E.—Elderly qualified Chemist required for Dispensing and Light Counter work; state age and salary required; permanency. "T. S." (12/130), Office of this Paper.

LONDON, N.W.—Wanted by March 22nd, a capable Assistant; one accustomed to high-class Retail and Dispensing business. Apply, stating full particulars and salary required (or personal interview if possible), to W. J. Dalby, 6 Canfield Gardens, N.W. 6.

LONDON, S.E.—Assistants (two); one qualified, one unqualified; male or female; capable of taking entire charge; characters must bear strict investigation; fair amount N.H.I. work, and active Retail; hours 9 to 8, Thursdays till 1 o'clock. State full particulars and salary required to J. W. Douglas, 19 Kensington Terrace, S.E. 11.

LONDON, S.W.—Wanted, Junior Assistant, male, unqualified, outdoors, for middle-class suburban business; quick Retail and N.H.I. work. Apply, giving full particulars of experience, etc., to R. T. Jennings, M.P.S., L.P.S.I., 487 Wandsworth Road, S.W. 8.

LONDON, S.W.—Wanted (shortly), competent experienced Assistant for general middle-class business; must be good Counterman and reliable Dispenser. Apply personally, or write full particulars, to W. F. Enness, Pharmacist, 91 High Street, Wandsworth, S.W. 18.

LONDON, W.—Wanted, capable Assistant (male) with good Dispensing experience; outdoors; hours 8.30 a.m. to 7 p.m., two nights weekly to 9 p.m., Saturdays 1 p.m., Sunday duty (one in three) 10 a.m. to 1 p.m. and 6 p.m. to 8 p.m. Apply, stating experience and salary required, to J. G. Gould & Co., 23 North Audley Street.

LONDON, W.—Competent Assistant (outdoors) to take charge of Dispensing Counter in high-class Dispensing business; must have had good experience, and with a knowledge of Photography preferred; junior kept. Please state age, height, experience, and salary to H. Dixon, 1 Russell Gardens, Holland Road, Kensington, W. 14.

LONDON, W.—Gentlemanly Assistant required. Full particulars to H. N. Davidge, 11 Shaftesbury Avenue, Piccadilly Circus, W. 1.

LONDON, W. & S.W.—Evenings; Assistant, qualified; good Counterman; one required near Putney Bridge each Thursday, 6 till 8, and alternate Sunday, 6 till 8 p.m.; also near Baker Street, each Thursday, 2 o'clock, or not later than 5 till 8; alternate Sunday 6 till 8 p.m. Goodall, 66 Lower Richmond Road, Putney.

LLANDUDNO.—Wanted, lady Assistant with Dispensing and Retail experience. State full particulars in first application, and enclose photograph (to be returned), to Miss Hornblow, 4 Queen's Buildings, Llandudno.

MALVERN.—Assistant; accustomed to good-class Retail and Dispensing; no N.H.I. Please state usual particulars, salary required (outdoors), etc., to Alfred Mander, The Belle Vue Pharmacy, Malvern.

MIDLANDS.—Young capable Manager (qualified) for Cash Store required at once; good salary with prospects to a really energetic and capable man. Apply, giving fullest particulars, to 9/8, Office of this Paper.

NORTHAMPTON.—Smart young Assistant required for good class business; capable Dispenser and knowledge of Photography; must be good Window-dresser; easy hours; outdoors; Sunday or extra duty. State age, experience, salary required and give references, P. Jeyes & Co., Ltd., 6 The Drapery, Northampton.

ROYAL DEVON AND EXETER HOSPITAL, EXETER
(200 Beds.)

WANTED, QUALIFIED DISPENSER, having experience Photographic work.

Commencing salary £210 per annum, with mid-day meal. Applications, stating age, experience, etc., together with copies of three recent testimonials, to be sent to the undersigned on before MONDAY, 3rd March.

By Order of the Committee,

S. S. COLE, Secretary.

Dated 17th February, 1919.

SANDOWN, ISLE OF WIGHT.—Wanted, smart unqualified Assistant, with good Dispensing experience, for high-class Pharmacy; easy hours. State age, salary required (outdoors indoors), etc., to Woollings, Chemist, Sandown, Isle of Wight.

SCULCOATES UNION. DISPENSER.

The Guardians require a fully qualified DISPENSER (male female) for their three Relief Stations in Fern Street, Bee Street, and St. George's Road, Hull.

Salary at the rate of £140 per annum, and a War Bonus 23s. per week. The appointment will be subject to the sanction of the Local Government Board, and a small deduction will be made from the remuneration for superannuation purposes.

Forms of application and particulars of the hours of attendance will be sent on request.

Applications to be sent so as to be received by me not later than 10 a.m. on THURSDAY, the 27th instant.

J. H. WILD, Solicitor,

Clerk to the Guardians

12 Harley Street, Hull,
19th February, 1919.

SOUTH OF ENGLAND.—Assistant required (male or female) free removal; permanency with good salary. Time White Co., Ltd., Chemists, Portsmouth.

SUNDERLAND.—Qualified Assistant wanted, about 28, for ready money Retail and N.H.I.; hours 8.30 to 7.30, Saturdays Wednesday half-holiday, no Sunday duty. Full particulars, references, and salary required to E. R. Cherrett, Ucal Pharmacy, Monkwearmouth.

UCKFIELD, SUSSEX.—Smart Assistant required in March for Dispensing and Counter; knowledge of Photography and Optics useful, not essential; easy hours; no Sunday duty. Side Smith.

AN energetic Junior wanted (at once) for quick Retail; hours 9 a.m. to 8 p.m., Thursday 1 o'clock, no Sunday duty. Apply morning or evening, or by letter, stating age and salary required, to Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

ASSISTANT wanted for a good-class Pharmacy; single demobilised man with good experience for preference, with knowledge of Photography and Optics or Dentistry; short hours; Sunday duty. Send full particulars to H. S. Adams, Pharmacy, Pangbourne, Bucks.

ASSISTANT (male); must be good Counterman and Window-dresser, with knowledge of Photography. State full particulars and salary required, Holmes, 19 Eden Street, Kingston-on-Thames.

ASSISTANT wanted for Cash Retail; unqualified. Usual particulars and salary required to "Chemist," 4 Mount Ephraim Lane, London, S.W. 16.

ASSISTANT (gentleman or lady) required for good-class Pharmacy; quick and capable Dispenser. Give full particulars of age, experience, and salary desired to E. L. Slade, Pharmacy, 3 Station Parade, Kew Gardens.

ASSISTANT wanted (at once) for Dispensing and Retail business. State salary required, age, and experience, A. E. Gray, 81 Cornwall Road, Westbourne Park, W. 11.

ASSISTANT required (immediately), with high-class Dispensing and Counter experience; S. Keusington. Address 16/17, Office of this Paper.

ASSISTANT wanted (at once), quick Cash trade, for Store Counter, Window, and Photographic; not over 30; good salary offered; competent man with satisfactory credentials. Apply to Guests, Chemists, Tooting Broadway, S.W. 17.

ASSISTANT required in a small Midland town; used to quick Retail and N.H.I. Dispensing. State age, height, salary required (outdoors), 14/33, Office of this Paper.

ASSISTANT for good-class Light country Retail and Dispensing business in Kent; hours 8 a.m. to 6 p.m., Saturdays 8 p.m. to 11 p.m., little Sunday or evening duty; pretty and lively district. Apply, with particulars as to age, salary, and experience, to "Phenacetin" (14/27), Office of this Paper.

ASSISTANT (unqualified) for Dispensing and Retail business; outdoors. State age, salary required, with references, to P. (16/3), Office of this Paper.

ASSISTANT; unqualified; good address; good Salesman; capable of taking charge in absence of proprietor; small, but busy first-class Dispensing business; shortly to be enlarged; good prospects for man seeking permanency; lady Dispenser kept; 10 minutes' bus or tube from Oxford Circus. State salary required, 15/6, Office of this Paper.

APABLE unqualified Assistant required (at once); must be good Window-dresser, reliable; and energetic for good-class country business. State age, height, experience, and salary required (outdoors) to Oliver. Chemist, Maidstone.

ARTS & CO. have vacancy for qualified Dispenser; male. Apply W. J. Jameson, 48 Baker Street, Portman Square, W.

ASSISTANT for high-class business; S.W. district; easy hours. Write 61/670, Office of this Paper.

ENERGETIC Junior required (outdoors) for good-class Family business; seaside. State experience and salary required, 15/6, Hoyle, Cheshire.

EXPERIENCED Assistant wanted for good-class Family and Dispensing business (capable of taking charge); outdoors; agency. Apply, stating full particulars, age, experience, salary required, etc., 15/18, Office of this Paper.

GOOD salary to a man having experience of making high-class preparations and seeing them well put up; a knowledge of mineral water trade would be useful. Morgan Davis, 225 Sham High Road, S.E. 4.

NIOR Assistant required (at once); outdoors. State full particulars and salary, William F. Cole, 2 Commercial Road, St. John's.

NIOR or Shop-trained lady Assistant; mostly for Counter and Window-dressing; first-class business. Full particulars, Maries, Pharmacist, Waterloo, Liverpool.

NIOR Assistant (immediately) to assist in Dispensing and putting up Stock (lady or gentleman), or part-time Assistant. Evans, 32 Harrington Road, South Kensington.

NIOR or Improver; accustomed to good-class Dispensing business; outdoors; time for study if desired; residential district Birmingham. State full particulars and salary required to 16/6, Office of this Paper.

BOY wanted as Assistant Dispenser (outdoors) in country town; main line from London; simple bookkeeping and Minor Dressing. Apply, stating salary, age, and experience, to Dr. Briscoe, Henham, Wilts.

BOY Assistant wanted for Toilet and Counter; accustomed to modern methods. Meyrick & Davies, 34 James Street, W. 1.

NIOR (qualified) for high-class Store trade: South Coast; new, up-to-date fitted shop; must be well up in Optical, Graphic, and Surgical departments, good Stockkeeper, and to control staff. Apply, fullest particulars, salary experience, disengaged, to Simpson, 6 Wilbury Crescent, Hove.

NIOR wanted for branch; must be active and of good address, married, to live in house attached. State full particulars as to age, height, experience, and salary required to E. & Welch, Broad Street, Worcester.

SSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); hours; good and progressive salary, with excellent prospects; removal.

NIOR at once; Wednesday mornings essential, and one day or two half-days. Wright Holmes, New Malden.

NIOR Assistant required in a high-class Retail and Dispensing business. Please state time available, salary required, and usual particulars to "Manager," 1 Baron's Court West Kensington, W. 14.

NIOR.—Qualified man required for every evening except Thursdays and Sundays, in busy working-class district; about 5.30 till 8.30. Apply by letter only, in first instance, stating remuneration required, to W. M. Bell & Co., Chemists, 2 Malvern Road, Kilburn, N.W. 6.

NIOR Assistant wanted in a high-class Dispensing business for manufacturing purposes, superintending putting up and some Dispensing; must have served a regular apprenticeship well recommended for diligence and accuracy; not under 30 years of age; would suit student. Apply, with particulars of previous engagements, to 15/2, Office of this

QUALIFIED Locum wanted for about a month, to take entire charge of Dispensing and Family business; live out; interview required. Apply Arthur Pratt, 17 College Parade, Salusbury Road, Brondesbury Park (near Brondesbury Park Station).

QUALIFIED Manager required (immediately) for good-class Dispensing and Retail business in Highbury, Islington; first-class references essential, and good wages offered to satisfactory applicant. Apply Atkins, East Hill, S.W. 18.

QUALIFIED Manager for branch; permanency, with short hours. State particulars and salary required to the Secretary, Brightside and Carbrook Co-operative Society, Ltd., Kirkbridge Road Attercliffe, Sheffield, and endorse application "Chemist."

QUALIFIED Manager and Junior Assistant required for good-class Dispensing business. Full particulars of age, experience, salary, and when disengaged, 15/40, Office of this Paper.

QUALIFIED Manager for branch about to be opened in populous district four miles from Wrexham; Welsh speaker essential; permanency; commission; excellent berth for good man. Full particulars to L. Rowland & Co., Chemists, Wrexham.

QUALIFIED Assistant (outdoors) for good-class business. Please apply Phillips, Ph.C., Lichfield Street, Wolverhampton.

RELIABLE Assistant wanted as early as possible; accustomed to first-class business. Apply personally if possible, or write full particulars, to H. J. Perrett, 90 Victoria Street, S.W.

S. BROWNING MOSS, West Byfleet, requires gentlemanly Junior Assistant, chiefly for Counter in good-class Dispensing business. Please give all usual particulars when applying.

TEMPORARY Manager or Locum wanted for a few months, for business in residential artisan district; must be reliable and well recommended. Craven, 18 Bridgehouses, Sheffield.

UNIVERSITY COLLEGE HOSPITAL, Gower Street, W.C. 1.—Assistant Dispenser, holding Minor qualification (lady or gentleman), required; salary £145 per annum; hours 9 to 5, Saturdays 9 to 1; additional attendances on two evenings weekly until 9, and every third week on Saturday afternoon and for one hour on Sunday. Apply to C. H. Hampshire, Pharmacist.

UNQUALIFIED Assistant with good experience wanted for country Retail; short hours, no Sunday work; state age, salary, with references. Gibson, chemist, Brigg.

WANTED, Junior Assistant, lady, three employed, for good-class Dispensing business; duties, Stock, Dispensing, and Counter; must have some experience in Chemist's business. Apply with usual particulars, salary required, and when disengaged, Feltwell, 91 Hammersmith Road, West Kensington, W. 14.

WANTED, a business-like reliable Assistant, qualified preferred, for good-class Dispensing business. State age, experience, references, and salary required (outdoors), Jennings, Hoyle, Cheshire.

WANTED, Dispenser (male), fully qualified, M.P.S.; outdoors; permanency for reliable man; salary £200 per year, rising by two annual increments of £10 per year to £220 per annum. Apply, stating age, full particulars, with three recent testimonials and references, by February 28th. Secretary, Medical Institute, Norwich.

WANTED, Dispenser to general practice. Apply Dr. Evans, The Glen, 161 Lewisham Road, S.E. 13.

WANTED, in Lancashire town, a qualified lady Dispenser and Bookkeeper; must have had previous Surgery experience; rooms and attendance provided. State salary expected and enclose references to 7/16, Office of this Paper.

WANTED (at once), qualified Branch Manager for good-class Dispensing and Retail; must be altogether reliable; good Window-dresser. State salary and particulars, Barkers, Chemists, Grimsby.

WANTED (immediately), fully qualified Dispenser; good wages; live out; permanency. Apply Manager, Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

WANTED, an up-to-date Assistant, with Continental experience preferred; Belgian, French, or Swiss, with West-End experience; good salary and liberal commission to smart man. Apply "Lemci" (13/39), Office of this Paper.

WANTED, qualified and unqualified Assistants for high-class Dispensing business; sleep on premises. Full particulars of experience, salary required, and references in application. Thomas Bros., Bath Road, Cheltenham.

WANTED, a reliable capable Assistant to manage a well-established branch business under control of Head Manager; qualified; age 25 to 35; preferred married, and wanting to better himself. Apply 2/4, Office of this Paper.

WANTED, reliable Assistant with good Dispensing experience; outdoors. Particulars to R. W. Walden, 65 Elizabeth Street, Eaton Square, S.W. 1.

WANTED, two unqualified Assistants, about 30; capable, energetic, with good-class Dispensing and Counter experience essential; outdoors. Apply, stating usual particulars, salary required, etc., to T. G. Stewart, Chemist, Bracknell.

WANTED, unqualified, energetic Assistant for middle class trade; knowledge of optics a desideratum but not essential; board and residence; state salary required. Wyatt, Broadway, Barnes, S.W.

WANTED, smart Junior for high-class Drug Stores. Please state age, salary required, and references to G. W. Cooling, 103 Victoria Street, Grimsby.

WANTED, a capable unqualified Assistant, single, for a good class country business. Please apply, with references and salary required (outdoors), W. Hitchman & Son, Gold Street, Kettering.

WANTED, young Lady (Hall qualification), chiefly for dispensing. Apply, with particulars and salary required, etc., A. Shaw, Chemist, 43 Green Lane, Stoneycroft, Liverpool.

WINDOW-DRESSER AND STOCKKEEPER.—A vacancy occurs for a capable person, male or female, for the above-mentioned post; must be energetic, possess initiative, and be conversant with modern display methods; previous experience and undeniable references necessary; progressive salary to suitable applicant. State full particulars to E. M. & M. T. Chater, Chemists, Watford.

WHOLESALE.

LONDON, S.E.—Lady Assistant (experienced) for Chemist's Toilet and Sundry Counter; outdoors; good and progressive salary to suitable applicant; good references essential. J. Milner, 209 Trafalgar Road, Greenwich, S.E. 10.

ADVERTISER wishes to get into touch with someone thoroughly experienced in the manufacture of Beef Cubes; extremely liberal terms offered. Write, giving full particulars of experience, to 14/20, Office of this Paper.

BAISS BROS. & CO., LTD., have a vacancy in their Laboratory for a man accustomed to make Galenicals, etc. 175 Grange Road, Bermondsey, S.E. 1.

CHEMICALS.—Man wanted, with knowledge of Laboratory requirements, for Stock and Despatch room; reliable worker. State age, experience, and wage required, 55/72, Office of this Paper.

CHEMIST; young, energetic, with all-round Manufacturing experience and knowledge of Tablet making; capable of initiating and supervising extensions of Wholesale business. State experience and salary, 278/34, Office of this Paper.

CLERK (male); able to take charge small office; knowledge of Drugs, Chemicals, and Sundries essential. Full particulars, age, experience, salary required, to "Midlands" (12/24), Office of this Paper.

GALENICAL LABORATORY.—Wet and Dry room hands, experienced, and Junior, for Manchester district. State fully experience and wage required (confidence respected), 14/220, Office of this Paper.

LABORATORY.—Wanted for provincial Wholesale house, qualified man to take charge of Galenical Laboratory. Apply with full details of experience, salary required, etc., to 60/16, Office of this Paper.

LABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

LOZENGES.—Practical Worker required by Lanes firm. State experience and wages, 14/15, Office of this Paper.

PACKER.—Wanted (at once), experienced Packer for West-End Toilet Saloon; able to bottle and label toilet preparations; apply, by letter stating experience and salary required; ex-soldier preferred. Address "Packer," c/o Pool's, 180 Fleet Street, E.C. 4.

PERFUMERY TRAVELLER for South London required; must be experienced in the trade. Apply by letter only, with full particulars of experience, in confidence, to J. and E. Atkinson, Ltd., 1 Southwark Park Road, Bermondsey, S.E. 16.

PILL Maker (experienced) wanted by old-established firm in the Midlands. State wages and experience to 56/4, Office of this Paper.

PROVINCIAL Limited Company require the services of a gentleman having a good knowledge of the Drug Trade and fully conversant with office detail and management; initial salary about £250; to a suitable person opportunity would be afforded of acquiring an interest; full particulars in confidence. Apply 14/22, Office of this Paper.

REPRESENTATIVE wanted for South Coast, to represent well-known brand of British Eau de Cologne as side line. Write fullest particulars, which will be treated strictly confidentially, to 58/71, Office of this Paper.

TABLET MAKING.—Wanted, first-class man; well experienced in the making of Compressed Tablets; the position is permanent and progressive. Apply Manager, Philip Harris, Edmund Street Birmingham.

TRAVELLERS wanted by old-established firm, to carry a few good selling side lines in packed Medicinal Capsules; liberal commission; state ground covered. Apply 270/32, Office of this Paper.

TRAVELLER wanted by a firm of Manufacturing Druggists in the North Midlands; one acquainted with West Yorkshire and Lancashire preferred. Please forward full particulars as to experience, age, present salary, etc., 56/67, Office of this Paper.

VEGETABLE DRUGS.—City Merchant, opening Crude Drug department, import and export, requires capable man to take charge; salary and commission. Apply 8/7, Office of this Paper.

WANTED (at once), experienced Representative for Lancashire and district; must be personally acquainted with buyers packed goods and Wholesale houses in cheaper lines; good commission and expenses for first-class man. Apply 272/19, Office of this Paper.

WANTED by a firm of Wholesale Manufacturing Druggists the North, a competent man to take entire charge of the Manufacturing Laboratory for the preparation of all Galenicals and manufactured articles kindred to the Chemist's business, applying please give the fullest particulars as to age, experience, salary, etc., 56/670, Office of this Paper.

WANTED, an experienced Pillmaker and Coater. Apply Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

WANTED, Junior Assistant; good appearance and address; one used to manufacture of Galenicals, to superintend Warehouse, and occasionally travel. Full particulars as to wages required, etc., in first letter, Thomas, 157 Cowbridge Road, Cardiff.

WANTED, experienced Medicinal Tablet Coater; good wages and excellent prospects for first-class man. Wolfenden, 20 Larch Street, Southport.

WANTED, practical Perfumer by old-established firm in Midlands; good salary to suitable applicant. Apply 14/3, Office of this Paper.

WANTED, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

WET COUNTER.—Junior Hand wanted. Apply, stating salary, experience, and wages required, to Secretary, General Apothecaries' Company, 49 Berners Street, W. 1.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

CHINA AND STRAITS SETTLEMENTS.—Senior and Junior Assistants wanted in two old-established first-class businesses; qualified; unmarried preferred; age 25-30; good experience indispensable; advancing salary and good prospects; free passage out and home; both appointments are in good climates and pleasant surroundings. Apply Dakin Brothers, Ltd., 82 Middlesex Street.

EGYPT, SYRIA, AND PALESTINE.—London house, with office in Cairo, sending principal from Cairo to Palestine, with the view of opening a permanent office, is open to entertain the sole representation for Drugs, Chemicals, Patents, Toilet preparations, Sundries, etc.; connected with largest buyers on the other side; best references. Write 12/12, Office of this Paper.

HAVRE, FRANCE.—Assistant wanted, speaking French; 10 francs per week; comfortable berth. Apply "Pharmacie Principale," 28 Place de l'Hôtel de Ville.

JAPAN.—Wanted (immediately) as First Assistant, single, qualified, in first-class business at Kobe; easy hours; liberal salary; passage out and home. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

SOUTH AFRICA.—Wholesale Drug house would like to correspond with a gentleman fully conversant with the various branches of the business with a view of representation. State age, experience, and salary suggested, 56/60, Office of this Paper.

STRAITS SETTLEMENTS.—Qualified Assistant, young, capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, dollars 21 per month, second and third years dollars 275 per month, fourth year dollars 300 (Straits dollar 2s. 4d.); splendid opportunity for an energetic man; a knowledge of Optical and Photographic work desirable. Apply W. O. H., Burgoyne, Burhidges & Co., Ltd., Ed. Ham, E. 6.

FEDERATED MALAY STATES.—Qualified Assistant required: unmarried; three years' agreement; passage paid cut and home; must have good health; salary first year \$250, second year \$275, third year \$300 per month. (dollar equal 2s. 4d.); short hours; preference given to one with knowledge of Photography and Optics, but not essential; advancement for good business men. Apply 47/21 Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A GENTLEMAN, 30 years' Medical, unqualified, requires engagement as Dispenser or any position of trust; disengaged; excellent references. Apply, stating salary, 11/6, Office of this Paper.

A. H. COOPER, M.P.S., 5 Vineyards, Bath, open for temporary engagements.

A S Locum; permanency; excellent references and experience. "Chemist," 122a Holland Road, W. 14.

A S Managing Assistant; Locum; eighteen years London, Continent, country; Photographics, Optics; considered good counterman; fluent French; disengaged. 39 Falmouth Road, London, S.E.

A S Senior, unqualified; well up in dispensing; good worker; high-class business preferred; state salary offered. Apply 4/31, Office of this Paper.

A SSISTANT (24), unqualified, discharged, at liberty end of March, desires post in good-class Pharmacy; excellent references. Apply 10/20, Office of this Paper.

A SSISTANT, 33, with 18 years' first-class Photographic and Dispensing experience, requires berth; married; salary 50s. or week; permanency; energetic and reliable worker. "Alpha," Regent Hill, Brighton.

A SSISTANT; unqualified; married; Dispensing Counter preferred; London or Surrey district; references and experience. Apply "A. C.," 127 Franches Road, Redhill.

A SSISTANT; unqualified; 33; Dispensing and Counter; disengaged third week in March. "M.," 138 Maygrove Road, West Hampstead.

A SSISTANCE daily 9 to 6 or so; unqualified; do anything; abstainer. Apply "Gentian," (15/350), Office of this Paper. All advertiser please send name and address to this Office.

BIRMINGHAM DISTRICT.—Unqualified (42) Managing Assistant; good-class Dispensing and Counter experience; eight years' successful management; keen buyer and organiser; all branches; modern methods; permanency; first-class references; at liberty March 15th. "Energetic," 110 Hunters Road, Handsworth, Birmingham.

BLACKPOOL OR NEAR.—Position required on demobilisation; now Dispensing in home Hospital; 28; well experienced; qualified; Manager with full control buying, etc., before enlistment. Apply 57/11, Office of this Paper.

BRANCH Manager; qualified; active, experienced, and reliable; permanency; reside on premises; London or suburbs; married; total abstainer. Evans, Chemist, Aberdovey.

CHEMIST, age 44, for some years Manager of important branch, is desirous of change; experienced in all branches; highest references from present employers; private firm or company. Please state salary, "Rhei" (10/23), Office of this Paper.

CHEMIST (27), unqualified owing to M.S. since 1914, three years present situation, used to modern distilling and extracting plant, seeks lucrative and permanent situation; England Colonies. Apply 16/19, Office of this Paper.

CHEMISTS requiring temporary qualified assistance are invited to make application as under; now disengaged; terms moderate. "M.P.S.," 8 St. James Road, Shirley, Southampton.

CHEMISTRY.—Smart, quick Youth requires engagement as Improver; City business experience; not afraid of work. "J. H.," Rose Cottage, Checker's Lane, Pitstone, Bucks.

CLERICAL; evening work of any kind; terms moderate. Write "F. G.," (279/20), Office of this Paper.

CONTROLLING, secretarial, or senior clerical position required by qualified Pharmacist possessing initiative, energy, and organising ability; thorough knowledge of Drug trade; Retail and Wholesale experience. Apply "North" (13/3), Office of this Paper.

DEMOBILISED, 29; Assistant; unqualified; single; 10 years' City and West-End experience, three years' Army Dispenser (Italy); Dispensing, Photographic, and Homoeopathy; excellent references; London or Continent preferred. "Aconite" (7/14), Office of this Paper.

DEMOBILISED, age 24, single, abstainer, desires position in the Midlands; town and country experience at Counter and Dispensing. Apply "N.C.O.," (10/14), Office of this Paper.

DEMOBILISED (31), unregistered, married, 13 years' all-round experience, desires engagement; active, reliable; could take charge; well recommended. Particulars to 16/38, Office of this Paper.

DISENGAGED February 24th; Locum or otherwise; ex. B.E.F.; age 40. Manager, 10 Ponsonby Terrace, Westminster, London.

DISENGAGED, Assistant (31), unqualified, excellent Dispenser, courteous and tactful salesman, all branches, desires permanency; country or seaside; undeniable references. Reply to "Efficient" (17/11), Office of this Paper.

DISENGAGED SHORTLY.—Advertiser, young, married, requires good post as Managing Assistant or Manager; unqualified; good all-round experience; first-class salesman and window-dresser; excellent references; good record as a business-builder; a quick cash business with scope desired, and with prospects of partnership or succession later preferred. Please state salary offered to "Worker" (16/39), Office of this Paper.

DISPENSER requires part-time employment; 4½ years' experience previous to military service; Nottinghamshire preferred. W. S. Flowers, 70 Austen Avenue, Nottingham.

DISPENSER, qualified (Hall), young, desires post, full time. Doctor or Chemist, in or near Brighton; good worker; well recommended. Write Miss H. Fowler, 46 Park Crescent, Brighton.

DISPENSER; qualified; Chemist or Institution; in or near Bournemouth; immediate. Apply 12/7, Office of this Paper.

DISPENSER or Dispenser-Chauffeuse (lady) requires post with Doctor; Bournemouth district preferred. Apply 12/70, Office of this Paper.

DISPENSER-BOOKKEEPER (Hall certificate) desires post in or near London; Locum or permanency; eight years' experience with Doctors. Miss Payne, Highview, Maldon, Essex.

DISPENSER-BOOKKEEPER (lady), tall, requires post in Hospital or with Doctor; London or South-Eastern side. Apply 2/21, Office of this Paper.

EMPLOYMENT wanted by demobilised soldier (35); been assisting in Dispensary; two years' experience; good references; married. 34 Little Woolton Street, Liverpool.

ENERGETIC Locum; unregistered; good all-round experience; abstainer; references. "Senior," 19 Chapel Street, Uxbridge.

EVENING work required by reliable qualified man; City or West-End. "Ward," c/o Dowson & Co., Gamage Buildings, E.C. 1.

EXPERIENCED Senior; 39; disengaged; Irish certificate. Farquhar, 36 Church Street, Woolwich.

FOUR or five days a week; counter, stock, dispensing, prescribing; unqualified; Eastern district preferred; abstainer; moderate hours. Apply "Worker" (15/35), Office of this Paper.

GENTLEMAN (35), unqualified, experienced business Manager, and wife, qualified Chemist (M.P.S.), require positions together as Manager and Dispenser; permanency preferred in business with scope. Apply, stating terms and full particulars, to 10/36, Office of this Paper.

JUNIOR, unqualified, demobilised, Counter, Dispensing, and Photography, requires situation in Bath or Bristol. Apply to A. Cooper, 9 Brunswode Street, Bath.

JUNIOR Improver (18); disengaged March; well recommended; good Photographic experience; South London district preferred; 42 per week. Upton, 34 Norfolk Road, Tonbridge.

LADY (Hall certificate) requires post Second or Third Dispenser, Hospital, Yorkshire. Apply 10/29, Office of this Paper.

LADY Dispenser (Hall), lately qualified, requires post with Doctor, Hospital, or Chemist (no Counter work). Kindly state salary and hours, Miss Marsh, 89 St. Peter's Street, St. Albans.

LADY Dispenser, Hall certificate, Hospital trained, two years' experience, desires post; Hospital or Doctor; Liverpool or seaside preferred. Apply 12/26, Office of this Paper.

LADY Dispenser (Hall); X-ray operator; experienced; Hospital or Institution. 2 Selwyn Road, Upton Manor, E. 13.

LADY Dispenser (Hall) desires post; Chemist or Doctor; two years' experience; disengaged. Apply 15/37, Office of this Paper.

LOCUM; disengaged; age 52; good experience and references; qualified. "F. W.," 2 Beresford Avenue, Hull.

LOCUM, qualified, age 49, active, 33 years' experience, desires engagements from March 21st. Apply 10/22, Office of this Paper.

LOCUM; active; highest references; now disengaged. Apply 11/51, Office of this Paper.

LOCUM or permanency; qualified; 43. "Chemicus," 8 Princess Road, West Ealing, W.

LOCUM.—W. H. Lyne, M.P.S., 8 Westgate, Grantham, is now booking engagements; town or country. Free dates on application.

LOCUM Tenens; disengaged March 1st; experienced. "L. T.," 94 Llewellyn Street, Penfre, Glam.

LOCUM; qualified; London or provinces; disengaged. Cito, 4 Blenheim Road, N.W. 8.

LOCUM (36), disengaged; first-class experience and references; £4 15s. weekly plus fare. Apply "Reliable" (15/23), Office of this Paper.

LONDON.—Unqualified, 28, married, tall (demobilised), requires berth where occasional early evenings could be arranged; good Dispenser, Counterman, and Window-dresser. Write, stating salary, Swann, 26 Hamilton Road, Salisbury.

MANAGER or Senior; disengaged; great experience both in London and the provinces; Dispensing and Prescribing; tall, married, no family. "Chemist," 179 Arkwright Street, Nottingham.

MANAGER; qualified; permanency; 32; good appearance and address; 5½ years last position; highly recommended; splendid experience; would entertain working partnership; interview preferred; demobilised officer. "T. W.," 27 Havelock Road, Hastings.

MANAGER, qualified; good experience and references; energetic, active, and trustworthy; disengaged. Terms and particulars to "A" (14/17), Office of this Paper.

MANAGER, qualified; successful prescriber; active and obliging; married, tall; all-round experience; own furniture if live over. Apply "Xylol" (14/30), Office of this Paper.

MANAGER, qualified; 31; married; good experience; photography; excellent references. Apply 14/29, Office of this Paper.

MANAGER; good-class family; permanency; thoroughly capable and hard-working; gentlemanly and highly successful; highest references. Apply 15/8, Office of this Paper.

MANAGER; unqualified; abstainer; competent throughout, including Optics; increased business four-fold of present berth in three years; permanency desired. Apply to "Active, Lancashire" (15/12), Office of this Paper.

MANAGER, qualified, seeks a combined engagement with his son as Junior. Apply "Modern" (17/5), Office of this Paper.

MANAGER, with view to interest or succession; energetic and highly successful; highest references. Apply 15/80, Office of this Paper.

MINOR; part-time; London or suburbs; tall; 27; good Dispenser; high-class experience; 4½ years' service R.A.M.C. Carter, 55 Redcliffe Road, Fulham.

PHARMACIST, with experience in Analysis and Bacteriology, disengaged, requires situation in Laboratory or Manufacturing house. Apply 13/38, Office of this Paper.

PHARMACIST (qualified), steady, active, West-End and Provincial experience, requires position as Manager or Senior. Apply 14/11, Office of this Paper.

QUALIFIED Manager, married (29), outdoors, experienced and reliable, desires post; now disengaged. Apply 9/6, Office of this Paper.

QUALIFIED desires permanent situation as Manager or Assistant; Light Retail and Dispensing; experienced, reliable; married; disengaged. "Alert" (10/7), Office of this Paper.

QUALIFIED; 45; disengaged; small Managership, Dispensership, or Locum. Barker, Chemist, "Woodbrook," Oldham.

QUALIFIED, 23, with high-class Dispensing experience, disengaged, requires situation; full or part time. Apply 15/380, Office of this Paper.

QUALIFIED, demobilised end of February, desires part-time post; hours by arrangement; tall; good Counterman; London. Apply 12/11, Office of this Paper.

QUALIFIED Manager; elderly; energetic; good Counterman and Prescriber; London or suburbs. Address, giving full particulars, or for interview, 12/39, Office of this Paper.

QUALIFIED Assistant, at present in the Army, requires berth for demobilisation; Dispenser or Counter. Apply 277/1, Office of this Paper.

QUALIFIED Manager or Managing Assistant; age 25; good Salesman; presentable, fluent, and willing; good salary essential. Pearce, Brookside House, Timperley, Manchester.

QUALIFIED Manager; tall; energetic; married; preferably live over; languages; West-End, City, and Continental experiences. "Chemicus," 26 Wyatt Park Road, Streatham Hill.

QUALIFIED (35), married, desires berth; London suburbs, within 30 miles; abstainer; London and provincial experience; disengaged. "C. E. Beer," "St. Mary's," Ely, Cambs.

QUALIFIED, aged 49, desires temporary engagements; short or long periods; S.W. district; disengaged. "S. S.," 98 Greyhound Lane, Streatham.

QUALIFIED, tall, first-class Dispensing, and general experience, desires temporary engagement; City or West End; two or three months. Apply "Willing" (16/24), Office of this Paper.

QUALIFIED Manager or Assistant requires comfortable berth in London; good experience; highest references; disengaged; please give full particulars and salary offered. Apply "Carboxyl" (14/24), Office of this Paper.

QUALIFIED (37), desires position as Manager or Senior, with prospects; Photography; some knowledge of Optics, Buying, and Book-keeping. Apply 15/33, Office of this Paper.

RELIABLE qualified Manager desires change; West-End, City, and Continental experience. "Williams," c/o Dowson & Co., Gamage Buildings, E.C. 1.

STOCKS taken and priced expeditiously, accurately, and cheaply. Apply 11/5, Office of this Paper.

SUNDAYS, also Wednesday afternoon; unqualified; Dispensing, Counter; best references. Apply 16/9, Office of this Paper.

VIEW TO SUCCESSION.—Manager; qualified; 30; married; tall; early succession, or could wait moderate time for good business. "Yorkshire" (17/38), Office of this Paper.

UNQUALIFIED Assistant (26), recently demobilised, seeks berth; good-class Dispensing experience; highest references. State hours and salary. "Cattrell," Saxby Lodge, St. Marks, Cheltenham.

UNQUALIFIED Hall Student desires part-time berth in London. Miss Harris, 126 Thurlow Park Road, West Dulwich, S.E. 21.

UNQUALIFIED, experienced, as Drug Store Manager; Dentistry; good references; Lancashire or Yorkshire preferred. Apply 11/39, Office of this Paper.

UNQUALIFIED, age 34, seeks situation in or near Bristol; over 20 years' experience Drug trade; neat and accurate Dispenser; excellent references; salary 65s. per week. Apply 12/6, Office of this Paper.

UNQUALIFIED; smart; Dispensing, Stock; mornings only. Donoghue, 298 Kew Road, Kew, Surrey.

UNQUALIFIED; 23; tall; good Dispenser; smart Counterman thoroughly reliable; highly recommended; disengaged; Bristol preferred. A. Reed, 22 Gloucester Street, Brunswick Square, Bristol.

UNQUALIFIED; 10 years' good all-round experience; knowledge of Photography; good Window-dresser. "W.," White Hart Road, Maidenhead, Berks.

UNQUALIFIED; 32; good all-round experience; at liberty shortly; state salary offered. Apply "Mel Boracis" (16/5), Office of this Paper.

WHOLESALE.

A CAPABLE all-round man requires change; Counter and Dispensing, Toilet preparations, and Tablets. Apply 13/1, Office of this Paper.

ACTIVE Warehouseman desires change; can take charge "Chemicals," 14 Sussex Gardens, Paddington.

ADVERTISER (31), married, unqualified, desiring change, requires post as Manager or Managing Assistant where good business ability and conscientious service will be appreciated; long experience of Continental trade and languages; highest references. Kindly state salary to "E. D." (7/18), Office of this Paper.

ADVERTISER seeks re-engagement as Chemist's and Druggist's Engineer; 22 years' good all-round experience; alterations, maintenance and repairs, Tablet Machine, Dies and Punches, Pill Machinery, Pumps, Presses, Stills, Pipe Fitting, Plumbing, etc.; would take charge of small shop. Apply 10/15, Office of this Paper.

ADVERTISER (Ph.C.) desires post as Works Chemist or Laboratory Manager; London preferred; 20 years' Manufacturing experience, Galenicals, Chemicals, Analysis, etc. H. Johnson, 2 Willoughby Park Road, Tottenham, N. 17.

ADVERTISER (31), demobilised, seeks progressive position in Wholesale or Laboratory; preparation and supervision Proprietary packing; could manage department; Wholesale and Retail experience. Particulars to "Sergeant" (16/380), Office of this Paper.

ADVERTISER, twenty years' Manufacturing experience, Granulating and Compressing Tablets, seeks situation. "Tabloid" 17/2), Office of this Paper.

COMPETENT man (28) seeks situation in Wholesale or Retail Manufacturing department; Chemicals, Drugs, or Toilet articles; 13 years' varied Retail experience. "Cymro" (6/21), Office of this Paper.

DISENGAGED (24); wide experience in Analytical work, also Manufacturing operations; London district preferred. "C. B." 15/29), Office of this Paper.

LADY (23), good experience in Retail and Wholesale Sundries and Patents, is disengaged; good references. Dallen, 32 Hiltner Road, Richmond, S.W.

PHARMACIST (24), Square trained, requires Analytical experience with Wholesale firm. J. R. Lee, New Mills, Stockport.

ILLS and Tablets, Supervisor requires engagement; many years' experience. "Statim" (14/34), Office of this Paper.

QUALIFIED Pharmacist; Manufacturing and Retail experience; responsible position as Works or Office Manager. Apply 3/26, Office of this Paper.

QUALIFIED (35) wishes to change to Wholesale after 18 years' Retail experience; capable organiser, and thoroughly efficient; responsible position desired, with scope and chance of advancement. "Cortex" (15/17), Office of this Paper.

QUALIFIED (27), waiting early demobilisation, 10 years' experience (4½ Far East), open to accept responsible position Wholesale or as Representative; abroad preferred; excellent references. "D. C." c/o Clements, 1 Claremont Road, Luton.

REPRESENTATIVE; London and Home Counties preferred; can assure good connection; best of references; well known; energetic. Address "Reliable" (12/3), Office of this Paper.

REPRESENTATIVE, having large connection with Chemists and Stores in Lancashire and district, is open for several good ones on commission. Apply 12/15, Office of this Paper.

REPRESENTATIVE, lady, experienced, London connection (Doctors and Chemists), wishes to represent good house; smart, convincing Saleswoman; knowledge of French; excellent references; disengaged. Apply 12/28, Office of this Paper.

REPRESENTATIVE; indoors, or duties divided; 43; qualified. "Chemicus," 8 Princess Road, West Ealing.

REPRESENTATION required in Midland counties by well-known Birmingham man of good social position; Soaps, Perfumes, and Chemists' Sundries preferred; own car used by arrangement; commence immediately if desired; recently demobilised; age 35; appointment invited. Apply 18/6, Office of this Paper.

WORKS Chemist desires post; 14 years' varied Manufacturing experience; Drugs, fine and heavy Chemicals, Galenicals, Analysis, etc. Apply "R. A." (11/37), Office of this Paper.

YOUNG man (25), just demobilised, Chemist's son, desires situation in Laboratory; London district; keen; good education. Apply 9/16, Office of this Paper.

£650 PER ANNUM, not less accepted; experienced business man can organise and systematise working of office and works, frame up firm's policy and selling schemes, assist buying and advertising; shortly disengaged; qualified chemist. Apply 61/67, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

ENGLISHMAN, 12 years' Continental experience, perfect French seeks position as Representative for France, etc.; Drugs, Chemicals, Perfumery, Soap, Photography, Sundries, Glass Bottles, etc.; active and energetic; excellent references. Apply John R. Marshall, 19 rue du Tintoret, Asnières, Seine, France.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—125 Allebury "A" Prefs. 20s. 9d., 5 "O" Prefs. 20s. 4½d.; 175 Bovril Deferred, 16s. c.d.; 50 W. J. Bush Prefs., 84s.; 500 Commercial Salt, 2s. 9d.; 25 Champion & Slee Ordinary, 21s. 9d.; 40 Eugene Rimmel 7½% Prefs., 22s. 7½d.; 50 Plasmon Ordinary, 9s.; 40 Van den Bergh "B" Prefs., 19s. 6d.

Wanted (subject).—Camwal Prefs. and Debentures; Idris Prefs. and Debentures; 200 Wright Layman Prefs., 19s.; Parke's Drug Ordinary.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SALICYLIC Acid Plant (complete) for sale; maker, Lennox Foundry. Apply 60/39, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

SPECIAL OFFER.—Tooth Brushes, half gross each, 8s., 9s., 11s., 13s. dozen; bone handles, good bristle; four assorted samples, 3s. 6d.; ladies' Dressing Combs, 8 in., six dozen each, black, white, 10s. dozen, practically unbreakable; sample half-dozen 5s. 3d.; also six dozen Rakes, same price; one gross Henna Shampoo Powders, 18s., 1s. 8d. dozen; post free. Aldous, 48 Harpenden Road, West Norwood, S.E. 27.

WAYNE County Oil of Peppermint in 3 dozen 5-lb. bottles and three dozen 1-lb. bottles, at £1 5s. a lb. carriage paid; empties free. Also 5 cwt. finest quality Wood Charcoal Granulated, 3d. a lb. Butterworth, Wholesale Chemist, 11 Bewley Street, Hulme, Manchester.

WHAT offers? 14 cwt. Brown Wool in 1-lb. rolls; best offer, about 1s., accepted for quick sale. Apply 60/30, Office of this Paper.

WHAT offers? 1 cwt. Petroleum Jelly Flav., Winch. Tr. Cord. Co., Winch. Tr. Benz. Co. B.P., Winch. Ext. Cascara Sagrad. Liq.; 2 cwt. each Mag. Sulph. Cattle, do. Lump Resin; 4 lb. Grains Paradise; ½ lb. Fol. Buchu; ½ lb. Cantharis; 1 lb. Acid. Tanhio; 3 doz. Eucryl Tooth Paste; 6 doz. Eucryl Shampoo Powders; 6 doz. Papier Poudre Hair Slide; 4 doz. each 1s. tins Maw's and Carmichael Shaving Sticks; 6 doz. 1s. tin Taleum Powder. Apply 10/6, Office of this Paper.

EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

MARTINDALE'S 8th, 9th, 11th, 12th, 14th Editions; "Codex, 1907"; Squire, 17th Edition; "Veterinary Counter Practice"; "Art of Dispensing"; "B.P." 85, 98; "London Hospital Pharmacopoeia," 1874; Beasley, "British and Colonial Formulae." What offers? Jones, 32 Granville Street, Leamington.

DENTAL.

FOUR Bridge Showpieces. R. M. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

OFFERS wanted. 4 oz. Butyl Chloral Hyd., 8 oz. Iodoform Crystals, 3 Nativelle's Digitalein. Apply 11/50, Office of this Paper.

OPTICAL AND PHOTOGRAPHIC.

OPTICAL Trial Case; 1½-in. lenses; 164 lenses in all; Cylinders, Spheres, and Plano. What offers? Further particulars from Cole & Son, Weymouth.

MISCELLANEOUS.

GARDNER'S Rapid Sifter; size C. Apply 13/23, Office of this Paper.

TEN dozen Pocket Lamp Batteries, 7s. 6d. per dozen, or offers; demand decreased here. Apply 17/37, Office of this Paper.

POWDER Mill; complete with pulleys; makers, Wilkinson, Leicester; capacity ½ cwt; good as new; for sale. Apply 7/17, Office of this Paper.

WATSONS' OF SHEFFIELD

Want Folding Kodaks of all descriptions. At least two-thirds original retail price given for approved models.

For a short time we are willing to buy Kodaks of all descriptions, until fresh supplies reach this country. If you have any you want to dispose of, send them along to us without waiting to get into communication, and we will make you an offer by return.

Cash immediately. Goods returned carriage paid if no business.

WATSONS' (Proprietors, Wallace Heaton, Ltd.),
THE CAMERA HOUSE.

New Address: 19 CHANCE ALLEY, SHEFFIELD.
Telephones: 27 and 255.

WANTED.

OPTICAL Trial Case wanted. Apply 17/1, Office of this Paper.
VEST-POCKET Kodak or similar folding Camera. Clear, Chemist, Leicester.

TWO tins of Himrod's Asthma Cure. Wilson, Chemist, Egremont, Cumberland.

FITTINGS for branch. Lowest price to Bruce Smith, Chemist, Mexbro', Yorks.

PAIR of Counter Scales and Dispensing ditto. State prices, Ashby Bryn, Wigan.

1 CWT. or more Naphthalene fine powder. S. Vincent, Chemist, Addiscombe, Croydon.

SCREW-CAPPED Jars to hold $\frac{1}{2}$ lb., 1 lb., and 2 lb. extract of malt. Lowest prices for cash to Reoch, Chemist, Dundee.

SET of Recess Labelled Shop Rounds and Jars. State number and price to Taylors (Northern), Ltd., Crown Street, Halifax.

BOX Sign with word Chemist, white letters on red ground, for use with electric light. Stone, Chemist, 16 Exchange Street, Norwich.

DEMOBILISED Chemist unable to restart through lack of Shop Rounds; would anyone with surplus oblige? State price. Apply to 11/12, Office of this Paper.

WANTED to purchase, second-hand O'Brien Receipt-giving Cash Till; also three bevelled-glass Counter Cases, each 4 ft. long. Apply 7/19, Office of this Paper.

TABLET Sugar-coating Machine; good make and condition; also power Grinder; not less than 1 cwt. per hour. State make and price, 9/3, Office of this Paper.

CAPSULE MAKING.—Machine required for the manufacture of machine or hand-made Capsules. Full particulars (letters only) to Mr. A. May, 12 Bedford Place, Brighton.

PERFUMES, wanted practical recipes for cheap lines; also instruction in labelling and stoppering; good fees and expenses paid. State full particulars, 14/150, Office of this Paper.

DISPENSING Screen, about 6 ft. wide; Window Fittings and Carboys; also Shop Rounds and Counter Scales. Lowest cash price to Lurey, 71 Mexboro' Drive, Chapeltown, Leeds.

COAL Savers (Chemical) wanted for cash; any make or condition. Send full particulars, with price required, to Box 20, c/o Mather & Crowther, Ltd., New Bridge Street, London, E.C. 4.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

LARGE quantities of finely ground Kieselguhr or Fossil Meal; must be of light gravity and colour, and as free as possible from clay and chalk. Quote full details and price, along with samples, to Turner Brothers Asbestos Co., Ltd., "Purchase" Department, Rochdale.

4

Jay Mack's Ledger

10/6

YEARS

ONE
SIZE ONLY.

On appro. Send cheque, 1/- Post Booking Fee, if returned.

MACK-IVOR,
HIGHTOWN P.O.
CREWE.

Ayrtons, Evans,
Bleasdale,
Raimes

Australia:
C.D.A.

The Chemist's Compact Library

THE ART OF DISPENSING.

A treatise on the Methods and Processes involved in Compounding Medical Prescriptions, with Dictionaries of Incompatibles and New Remedies, and numerous Memoranda for Dispensers and Prescribers. (Ninth Edition). By PETER MACLEW, F.C.S., Pharmaceutical Chemist.

Price 6s. net, by post 6s. 6d.

VETERINARY COUNTER PRACTICE.

An indispensable book for chemists, whether urban or rural. It deals with the ailments of horses, cattle, sheep, pigs, dogs, and poultry. The seventh edition, like its predecessors, is by an experienced M.R.C.V.S., and includes much new matter. Contains 440 pages.

Price 4s. 6d. net, by post 5s.

CHEMISTS' WINDOWS.

An illustrated treatise on the art of displaying pharmaceutical and allied goods in chemists' shop windows, with chapters on ticket writing, the mechanics of moving devices, and business-promoting accessories. Contains 216 pages and 200 illustrations.

Price 3s. 6d., by post 3s. 10d.

ELEMENTARY DISPENSING PRACTICE.

By JOSEPH INCE, Phar. Chem., F.L.S., one of the 19th century's leading exponents of this subject. All apprentices and assistants have not the daily opportunity of working at a dispensing counter, with the result that many do not get adequate systematic training in the subject. This little book supplies this want. It gives graduated instruction in all manipulative requirements.

Price 3s. 6d. net, by post 3s. 10d.

DISEASES AND REMEDIES.

Chemists and Druggists need to know something about diseases and their treatment, and this book fills the gap between books of domestic medicine and standard works for medical practitioners. A new edition (the fourth) is now ready. It has been brought up to date and enlarged to 264 pages. (5th Edition.)

Price 3s. 6d. net, by post 3s. 10d.

MANUAL OF PHARMACEUTICAL TESTING.

By BARNARD S. PROCTOR, Phar. Chem., F.I.C., who was a thorough believer in chemists and assistants testing the chemicals and drugs they handle, and he devised many "short cuts."

Price 2s. 6d. net, by post 2s. 10d.

MINOR EXPERIENCES.

Gives over fifty candidates' descriptions of the Minor Examination as conducted by the Boards of Examiners in London and Edinburgh, prefaced by the official syllabus and other useful information. Indispensable to all chemists' apprentices and assistants who have not qualified, as it is the only book giving the questions and work of the Examination. Contains 116 pages.

Price 2s. 6d., by post 2s. 10d.

PRACTICAL METHODS OF URINE ANALYSIS.

This department of chemistry is one which those behind the drug counter can profitably cultivate. The object of this book is to give chemists exactly the information they want on the subject. The book is written by a working pharmacist who is expert in the subject, and has been revised by a M.B., Lond. (3rd Ed., 1914.)

Price 2s. 6d. net, by post 2s. 10d.

OPENING A PHARMACY.

This compact book deals with capital required, shop-fitting, order for drugs, the dispensing department, the chemist's books and how to keep them, how to take a lease, assistants, trade mark and copyright, the sale of poisons, stamped medicines, methylated spirit, advertising, and income tax.

Price 2s. 6d. net, by post 2s. 10d.

THE CHEMIST'S DICTIONARY OF MEDICAL TERMS AND TREATMENT.

This book measures 5 $\frac{1}{2}$ inches by 3 $\frac{1}{2}$ inches, and contains 308 printed pages. There is no medical dictionary so compact which gives so much up-to-date information. It goes straight to the point—which is what chemists most need when they have to answer medical questions asked by customers. (3rd Edition.)

Price 3s. net, by post 3s. 4d.

THE CHEMIST'S DICTIONARY OF SYNONYMS AND TRADE NAMES.

Uniform with the "Chemist's Dictionary." Contains 220 pages.

Price 2s. 6d. net, by post 2s. 10d.

PROVINCIAL HOSPITAL PHARMACOPŒIAS.

Uniform with the "Chemist's Dictionary," contains 286 pages and consists of formulas for medical prescriptions used in twenty-two hospitals and infirmaries in Great Britain outside the London district.

Price 2s. 6d., by post 2s. 10d.

WOOTTON'S CHRONICLES OF PHARMACY.

In two vols. maroon cloth, comprising 770 pages.

Price 7s. 6d. net, by post 8s. 3d.

Published by "THE CHEMIST & DRUGGIST,"

42 CANNON STREET, LONDON, E.C. 4,

and supplied by all the leading Wholesale Drug Houses at the published prices.

MEDICAL INDIA RUBBER GOODS OF ALL DESCRIPTIONS

Air Beds	Hypodermics
Air Bed Bellows	Hot Water Bottles and Covers
Air Cushions and Pillows	Muff Warmers
Atomizers	Nursing Aprons
Bandages	Pessaries
Bed Pans	Rectal Tubes
Camp Pillows	Sheeting
Catheters	Sponge Bags
Corks	Syringes
Douches	Teats
Drainage Tubing	Urinals
Douche Tubing	Water Beds,
Gloves	Cushions and Pillows
Hosiery	Webbing

HOOPER & COMPANY

(Established 1847)

7 PALL MALL EAST - - LONDON, S.W. 1.

Telegraphic Address: "Superabound, Charles, London" (two words).

Telephone No. Regent 2935

Beg to announce to the trade that they can now offer prompt delivery of the above goods from their large and varied stock in hand. Samples and prices will be forwarded on application.

ALSO AGENTS FOR

HOOPER, STRUVE & Co., Ltd.

Celebrated "BRIGHTON SELTZER WATER."

7 PALL MALL EAST, LONDON, S.W. 1.

NEW TOOTH PASTES

Showing Cent. per Cent. Profit.

The demand is amazing, but we are now able to give immediate delivery from stock, having greatly increased our facilities for manufacturing.

Chemist's own Name and Address cannot be printed on these four Tooth Pastes.

THE GET-UP IS SUPERB. THE TOOTH PASTES ARE ABOVE CRITICISM.

RETAIL

1/3

PER
TUBE

CARRIAGE PAID
ON £2 ORDER



WHOLESALE

7/6

Per Doz. Net
in Gross Lots.

SMALLER
QUANTITIES

7/9

Per Doz.

GLYNTOS DENTAL CREAM

The favourite, with a delightful Eau de Cologne flavour. The sales will soon be greater than any other proprietary Tooth Paste.

PERLYSIA TOOTH PASTE

Made from the popular American formula. Packed in superb embossed cartons.

MENTHILLA DENTAL CREAM

A delightful, refreshing Tooth Paste containing Menthol.

GLY-TYMOL TOOTH PASTE

An improved form of the popular Thymol Tooth Paste.

Specimen Cartons to show the superb style of packing post free on application.

THE STANDARD TABLET CO. LTD. HOVE.